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: P1046365

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

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1046365
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
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9273.9 lumens
Efficiency:	N/A
Efficacy:	130.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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

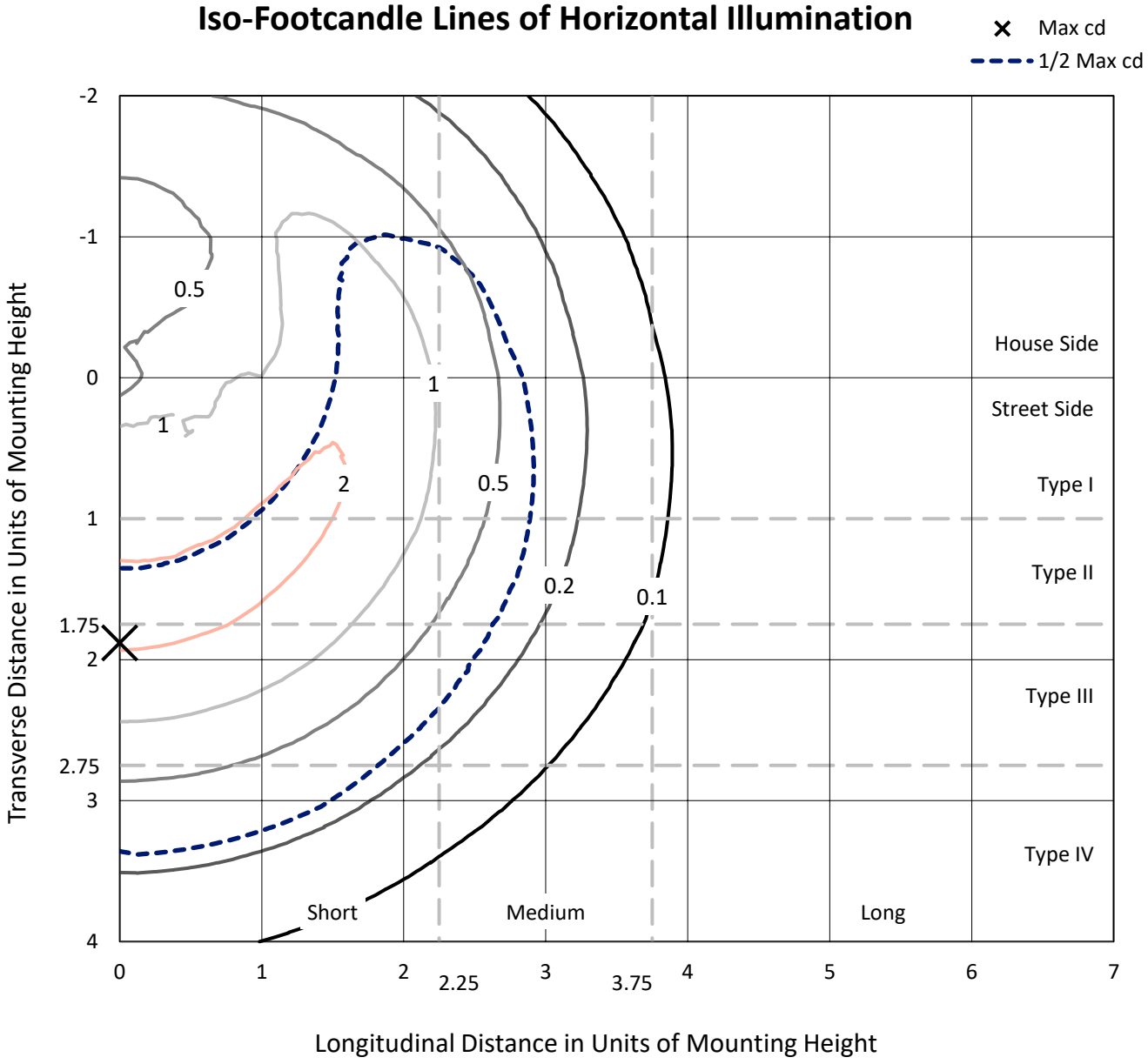


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Iso-Footcandle Lines of Horizontal Illumination



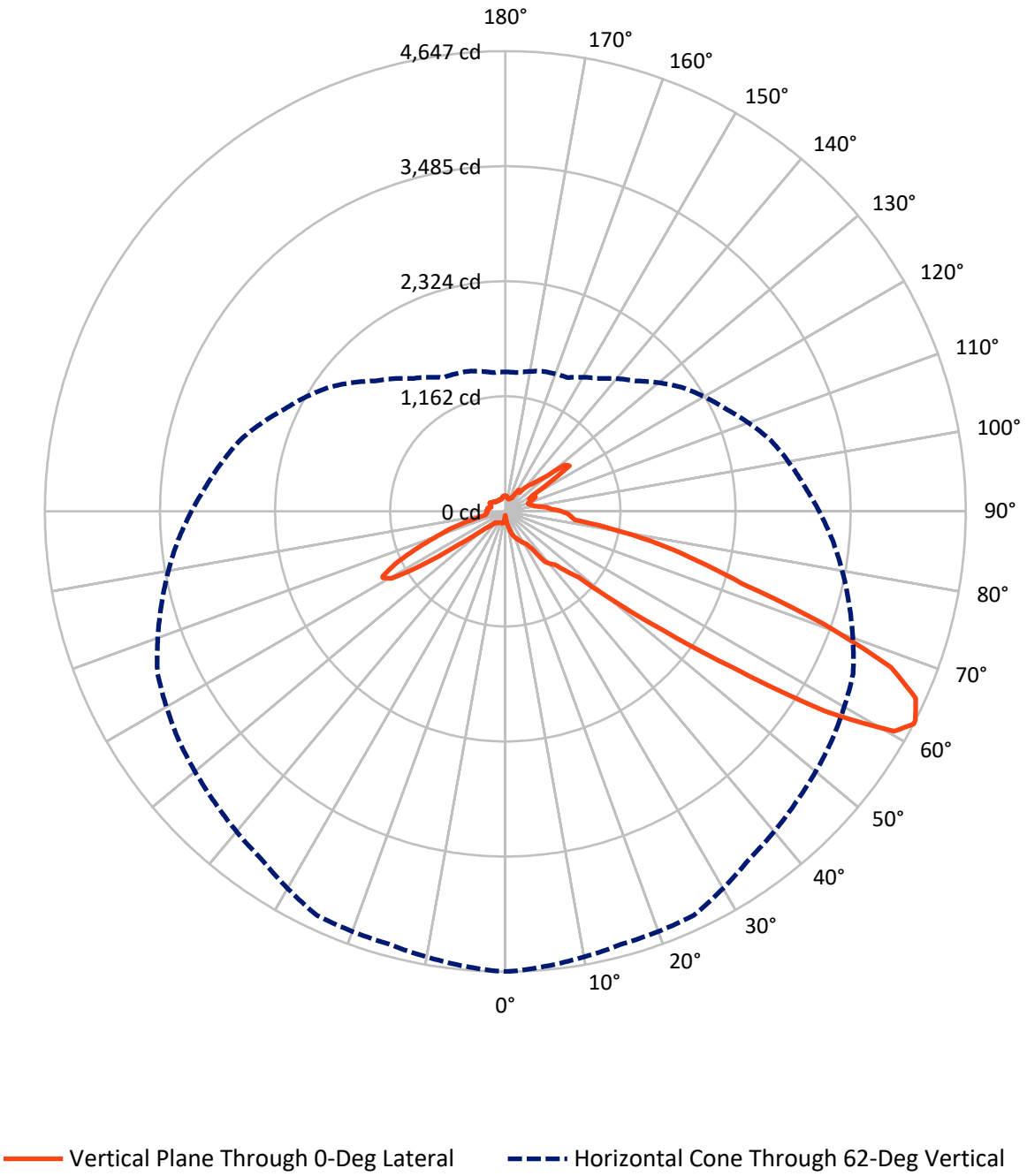
Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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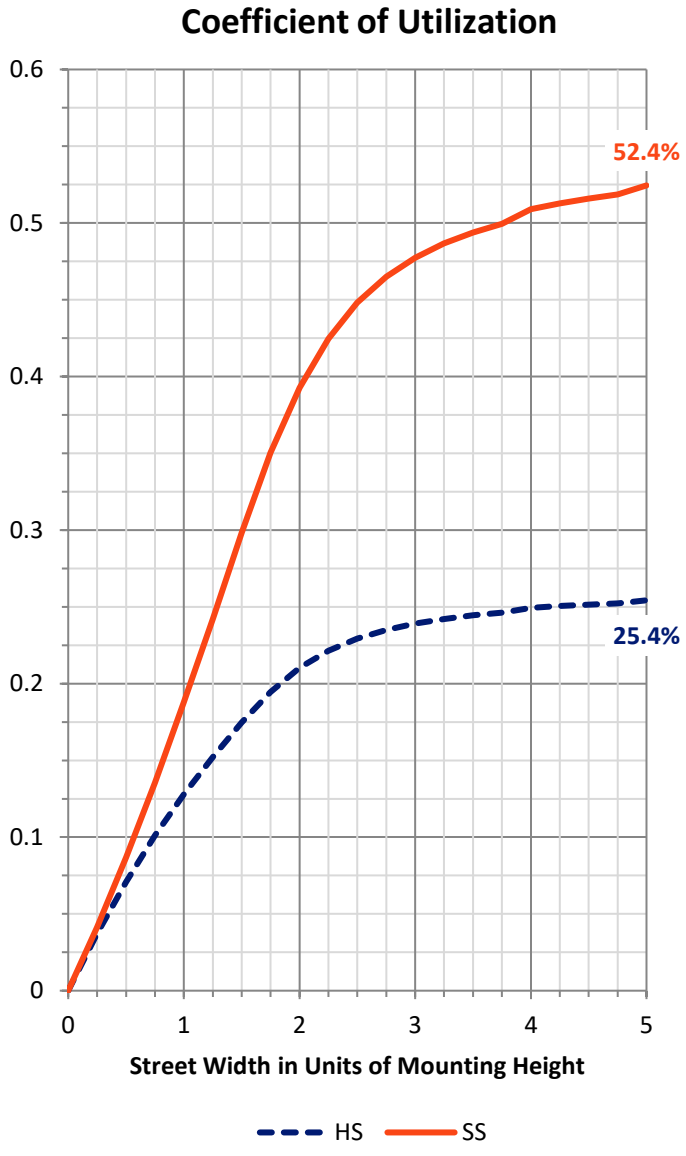
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2440.1	697.2	3137.3
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	5065.7	1070.9	6136.6
	% Fixture	54.6	11.5	66.2
Total	Lumens	7505.8	1768.1	9273.9
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.1
10°-20°	51.5	0.6
20°-30°	111.4	1.2
30°-40°	223.0	2.4
40°-50°	488.4	5.3
50°-60°	1710.2	18.4
60°-70°	2862.1	30.9
70°-80°	1485.6	16.0
80°-90°	564.2	6.1
90°-100°	359.8	3.9
100°-110°	238.4	2.6
110°-120°	249.1	2.7
120°-130°	416.2	4.5
130°-140°	250.5	2.7
140°-150°	132.5	1.4
150°-160°	69.7	0.8
160°-170°	37.8	0.4
170°-180°	14.1	0.2
0°-90°	7505.8	80.9
0°-180°	9273.9	100.0



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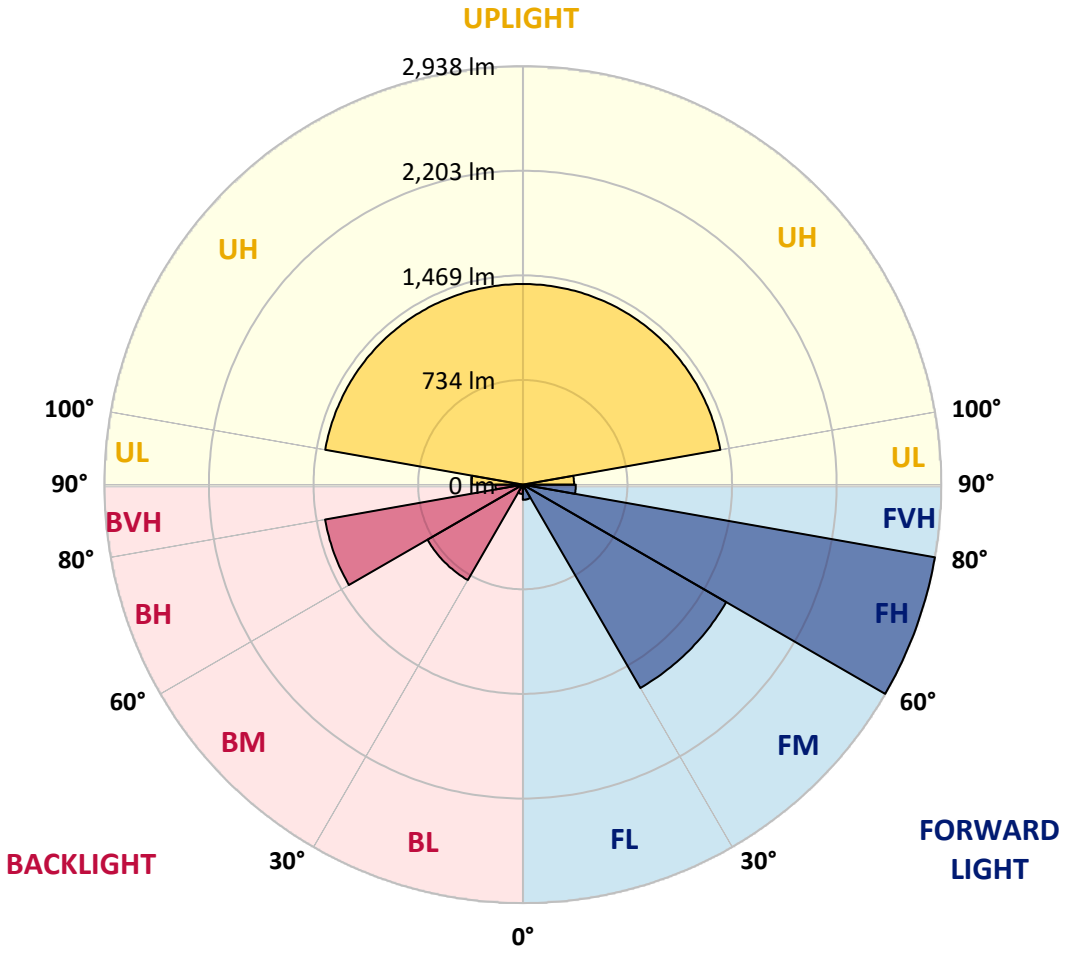
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	106.8	1.2			
FM	(30°-60°)	1648.8	17.8			
FH	(60°-80°)	2938.0	31.7			G2/5000
FVH	(80°-90°)	372.1	4.0			G3/500
BL	(0°-30°)	65.4	0.7	B0/110		
BM	(30°-60°)	772.9	8.3	B1/1000		
BH	(60°-80°)	1409.8	15.2	B3/2500		G3/2500
BVH	(80°-90°)	192.1	2.1			G2/225
UL	(90°-100°)	359.8	3.9		U3/500	
UH	(100°-180°)	1408.3	15.2		U5	

BUG Rating: B3-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*57.8*	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	*58.4*	57.2	57.2	59.6	62.5	62.5	63.1	61.4	61.4	60.8	61.4
5°	*85.0*	82.6	83.8	84.4	85.5	86.7	87.9	87.9	85.5	83.8	79.1
7.5°	*118.6*	118.0	119.2	118.6	117.4	120.3	122.1	126.2	127.4	119.8	110.3
10°	*152.8*	151.0	150.4	151.0	151.6	149.8	153.4	156.3	152.2	143.4	135.1
12.5°	*190.0*	190.0	190.0	189.4	189.4	188.8	187.6	187.0	182.9	172.9	159.9
15°	*231.3*	231.8	233.0	232.4	229.5	224.8	221.2	218.3	215.9	208.8	192.3
17.5°	*256.6*	255.4	256.6	256.0	254.9	251.9	245.4	239.5	231.8	221.8	209.4
20°	*280.2*	279.6	279.0	279.0	277.9	274.3	270.2	260.8	250.7	240.1	225.9
22.5°	*298.5*	297.3	298.5	297.9	297.3	296.2	289.1	280.8	269.6	257.8	243.1
25°	*322.1*	321.5	322.1	320.3	320.3	318.6	314.4	303.8	291.4	278.5	260.2
27.5°	*348.1*	346.3	348.1	347.5	345.1	340.4	336.9	325.1	309.7	297.3	280.8
30°	*369.9*	369.9	371.1	367.5	369.9	365.8	357.5	344.5	331.6	315.6	298.5
32.5°	*392.9*	392.9	391.7	391.1	394.1	388.8	379.3	364.0	353.4	336.9	322.1
35°	*457.2*	452.5	460.2	459.6	474.3	463.7	446.0	425.4	408.8	387.6	368.1
37.5°	*641.9*	639.5	636.0	613.5	587.6	591.7	594.7	571.7	551.0	512.7	467.2
40°	*694.4*	693.8	693.2	680.2	687.3	668.4	659.0	647.2	643.6	593.5	532.7
42.5°	*737.4*	730.4	737.4	761.0	798.2	785.2	737.4	676.1	664.9	617.1	592.3
45°	*854.2*	849.5	861.3	868.4	856.6	835.4	848.9	804.1	773.4	705.6	660.2
47.5°	*994.1*	989.3	1000.6	1006.4	1030.6	1008.2	997.6	959.3	907.9	843.6	784.6
50°	*1411.2*	1358.1	1401.1	1386.4	1392.3	1342.1	1362.2	1307.3	1261.3	1155.7	1048.9
52.5°	*1992.3*	1974.6	1945.1	1912.0	1937.4	1883.7	1900.2	1840.6	1757.5	1634.7	1477.2
55°	*2778.7*	2719.1	2737.9	2805.8	2791.6	2695.5	2678.9	2533.8	2384.6	2201.1	2035.3
57.5°	*3807.5*	3778.0	3743.8	3698.4	3654.1	3554.4	3505.5	3343.2	3111.4	2855.3	2624.7
60°	*4507.8*	4484.2	4468.8	4330.2	4248.8	4048.2	4002.8	3890.1	3683.6	3405.2	3087.2
62°	*4647.0*	*4643.5*	*4612.2*	*4526.1*	*4501.9*	*4289.5*	*4151.5*	*4025.8*	*3874.2*	*3591.6*	*3314.9*
62.5°	*4645.8*	4638.8	4620.5	4548.5	4523.7	4324.9	4175.1	4041.7	3890.7	3613.4	3341.5
65°	*4551.4*	4535.5	4527.3	4484.2	4473.0	4356.2	4157.4	4019.9	3893.1	3587.5	3360.9
67.5°	*4196.3*	4215.2	4216.4	4173.3	4136.1	4066.5	3876.5	3757.4	3670.1	3351.5	3137.9
70°	*3406.4*	3381.0	3355.0	3375.1	3358.6	3320.8	3169.8	3019.9	2910.8	2743.8	2541.5
72.5°	*2503.7*	2543.9	2543.3	2549.2	2552.1	2457.1	2389.9	2303.7	2244.7	2100.2	1955.7
75°	*2007.0*	2010.5	1999.3	1958.0	1913.8	1858.9	1870.7	1863.1	1834.7	1681.9	1538.6
77.5°	*1584.6*	1545.7	1561.6	1496.7	1439.5	1438.9	1461.9	1484.3	1496.7	1374.0	1263.1
80°	*1115.6*	1106.7	1092.6	1098.5	1051.3	1063.7	1074.9	1090.2	1066.0	993.5	942.1
82.5°	*704.4*	696.7	685.5	739.8	785.2	775.2	739.2	681.4	667.8	673.1	661.3
85°	*666.1*	665.5	655.4	650.1	643.0	627.1	636.0	648.4	641.3	601.2	549.2
87.5°	*628.9*	627.1	619.4	616.5	602.9	601.2	609.4	614.1	617.1	581.1	537.4
90°	*551.0*	543.9	536.9	542.8	541.0	542.2	544.5	543.3	544.5	502.0	483.8
92.5°	*459.6*	457.8	452.5	455.4	459.6	476.1	469.0	457.8	456.0	438.9	421.2
95°	*419.5*	420.6	414.1	418.3	419.5	419.5	414.7	409.4	405.3	391.7	375.8
97.5°	*347.5*	342.2	339.8	342.8	343.9	339.8	336.9	328.0	327.4	313.9	306.2
100°	*295.6*	294.4	293.2	296.7	297.9	296.2	296.7	291.4	290.8	283.2	274.9
102.5°	*276.1*	275.5	274.9	277.9	279.0	277.9	276.1	270.8	272.0	263.7	257.8
105°	*260.8*	260.8	260.2	261.9	258.4	256.6	254.3	254.3	255.4	249.0	240.1
107.5°	*243.6*	243.1	243.6	243.1	238.9	237.2	236.6	234.8	238.9	235.4	225.9

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*246.6*	246.6	246.0	239.5	237.2	234.2	233.0	236.0	234.8	228.9	223.0
112.5°	*302.1*	298.5	300.9	292.0	287.9	290.3	291.4	293.8	298.5	289.1	280.2
115°	*337.4*	338.0	343.9	343.9	335.1	339.2	339.2	338.6	343.3	336.3	327.4
117.5°	*275.5*	279.0	297.9	286.1	289.1	291.4	276.7	271.4	270.2	272.0	290.8
120°	*317.4*	312.7	330.4	293.2	282.0	282.0	292.6	306.2	291.4	269.0	274.9
122.5°	*519.2*	519.7	520.3	536.3	534.5	539.2	531.0	520.3	489.7	490.2	462.5
125°	*794.7*	787.0	787.0	779.9	778.7	767.5	781.7	790.5	766.9	726.8	683.2
127.5°	*760.4*	777.0	771.1	753.4	736.3	730.4	746.9	774.6	761.0	725.6	685.5
130°	*539.8*	543.9	542.8	561.6	566.3	560.4	566.3	546.3	549.2	557.5	536.3
132.5°	*452.5*	450.1	458.4	484.3	494.4	482.6	466.1	451.3	451.9	469.6	468.4
135°	*390.0*	388.2	394.1	395.3	406.5	397.0	382.3	382.3	385.8	390.0	388.2
137.5°	*352.2*	349.8	351.6	338.0	324.5	323.9	335.7	342.2	338.6	334.5	329.8
140°	*303.2*	304.4	301.5	290.3	284.4	285.5	293.2	303.2	300.3	291.4	284.4
142.5°	*241.3*	238.9	242.5	250.7	262.5	262.5	250.7	238.3	237.7	241.9	247.8
145°	*237.7*	236.6	237.2	235.4	237.7	235.4	231.8	228.3	224.2	221.2	218.9
147.5°	*257.8*	257.8	257.2	254.3	251.9	247.8	249.0	253.1	255.4	253.1	249.5
150°	*209.4*	211.2	211.2	210.6	208.3	210.0	212.4	213.6	215.9	215.9	212.4
152.5°	*161.1*	160.5	162.2	159.9	159.3	160.5	163.4	165.8	166.4	166.4	161.6
155°	*153.4*	152.2	153.4	152.2	151.0	152.2	154.6	155.7	156.9	155.2	150.4
157.5°	*143.4*	143.4	143.4	142.2	142.8	142.8	143.9	144.5	145.1	144.5	143.4
160°	*135.7*	135.7	136.3	135.7	135.7	136.9	136.3	135.7	135.7	135.1	134.5
162.5°	*131.0*	131.0	131.0	131.0	130.4	130.4	131.0	130.4	129.8	129.2	130.4
165°	*128.6*	128.0	128.0	128.0	128.6	128.0	128.0	128.0	127.4	129.2	131.6
167.5°	*133.3*	132.1	132.7	133.3	133.3	132.7	132.7	132.7	133.9	135.7	137.5
170°	*139.8*	139.2	139.2	139.8	139.8	139.2	139.2	139.2	139.8	140.4	141.0
172.5°	*145.1*	144.5	144.5	144.5	143.9	143.4	143.4	143.4	143.4	143.4	143.9
175°	*150.4*	150.4	150.4	150.4	149.8	149.3	149.3	149.3	149.3	149.3	149.3
177.5°	*156.3*	155.7	156.3	155.7	155.7	155.7	155.2	154.6	154.0	154.0	154.0
180°	*155.2*	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
2.5°	60.2	59.6	56.0	53.1	50.7	48.4	44.8	41.9	39.5	38.9	38.9
5°	77.9	76.7	73.2	68.4	66.1	62.5	59.0	56.6	53.7	52.5	53.1
7.5°	107.4	108.0	109.1	111.5	110.3	100.3	89.1	86.7	89.1	92.6	94.4
10°	133.3	131.6	131.0	138.6	136.9	122.1	107.4	102.7	106.8	114.4	118.0
12.5°	154.6	151.0	150.4	151.6	144.5	128.6	116.2	110.9	113.3	119.2	118.6
15°	185.8	180.5	172.9	168.1	159.3	148.1	132.7	123.9	123.9	123.9	123.3
17.5°	204.1	198.2	183.5	169.9	158.7	150.4	140.4	132.1	123.3	122.1	121.5
20°	220.1	211.2	195.3	180.5	166.4	154.6	140.4	130.4	122.7	121.5	120.9
22.5°	233.6	225.4	208.3	190.6	172.9	159.3	143.9	133.3	125.7	123.3	122.7
25°	251.9	243.1	223.6	202.9	182.3	165.2	151.0	138.6	129.2	124.5	124.5
27.5°	270.2	260.2	238.3	217.1	194.7	173.4	157.5	145.1	133.3	126.8	126.2
30°	287.9	276.7	253.1	228.9	206.5	184.1	165.8	151.6	138.6	131.6	131.0
32.5°	312.7	299.7	272.0	241.9	219.5	195.3	174.6	158.1	144.5	137.5	136.3
35°	361.0	346.3	315.0	276.1	240.7	208.3	183.5	161.6	148.7	141.0	140.4
37.5°	450.7	433.6	390.0	342.2	293.8	244.8	199.4	166.4	151.6	144.5	143.4
40°	504.4	470.8	424.8	387.0	350.4	303.2	244.8	192.9	157.5	149.3	148.1
42.5°	574.0	539.2	472.5	400.6	354.0	316.8	275.5	241.9	191.1	161.6	156.3
45°	640.1	613.5	556.3	479.6	408.8	344.5	293.2	260.8	228.3	194.7	189.4
47.5°	751.0	712.1	636.6	558.1	486.1	414.1	353.4	290.3	248.4	228.3	227.1
50°	1035.4	964.6	855.4	761.6	625.9	515.6	443.6	359.3	305.6	274.3	264.3
52.5°	1402.9	1329.2	1204.7	1069.0	918.5	776.4	635.4	514.4	427.1	372.3	374.0
55°	1950.4	1876.6	1693.7	1461.3	1254.8	1106.7	955.7	808.8	668.4	587.6	577.6
57.5°	2527.9	2461.8	2305.5	2021.7	1693.1	1419.4	1240.1	1136.2	1064.3	976.4	976.4
60°	2951.5	2841.8	2664.8	2378.7	2087.2	1727.4	1497.3	1348.6	1335.6	1320.3	1332.1
62°	*3168.0*	*3026.4*	*2773.9*	*2452.4*	*2181.6*	*1861.3*	*1637.7*	*1490.2*	*1464.2*	*1406.4*	*1407.6*
62.5°	3204.6	3048.3	2792.2	2452.4	2189.9	1873.1	1653.0	1509.1	1473.1	1402.3	1403.5
65°	3241.2	3053.0	2805.8	2412.9	2143.3	1832.4	1663.1	1475.5	1381.1	1262.5	1227.7
67.5°	3031.1	2838.2	2626.4	2243.6	1963.3	1663.1	1475.5	1287.3	1133.3	1012.9	994.1
70°	2461.8	2310.2	2146.8	1854.2	1609.4	1366.3	1207.0	1037.1	883.7	751.0	759.3
72.5°	1868.4	1726.8	1576.9	1391.1	1238.9	1075.5	934.5	797.6	670.2	587.6	602.9
75°	1447.1	1352.7	1246.6	1111.5	995.8	844.8	684.3	562.8	476.7	426.5	429.5
77.5°	1189.9	1092.0	1005.3	881.4	771.7	617.1	462.5	358.7	308.5	286.1	280.2
80°	915.0	843.6	766.9	656.0	535.1	415.9	310.9	262.5	229.5	213.0	206.5
82.5°	638.9	594.7	530.4	450.1	380.5	336.9	291.4	250.7	216.5	201.2	194.1
85°	526.2	502.6	467.2	421.8	380.5	332.1	281.4	240.1	210.6	198.8	192.3
87.5°	512.7	496.7	456.6	408.2	358.7	309.1	257.8	219.5	200.6	192.9	187.0
90°	470.2	451.9	423.6	375.8	331.6	278.5	236.6	213.6	199.4	190.6	184.1
92.5°	410.0	400.0	374.0	339.8	309.1	274.9	244.8	224.2	209.4	198.8	192.3
95°	364.6	352.8	338.0	310.3	284.9	257.2	229.5	210.0	194.7	183.5	178.2
97.5°	299.7	291.4	277.3	259.0	240.1	217.7	198.2	185.2	175.2	169.9	166.4
100°	272.0	266.7	258.4	245.4	230.1	214.2	200.0	192.9	188.8	185.2	183.5
102.5°	251.9	246.0	239.5	225.9	214.2	200.0	190.6	184.7	179.3	173.4	172.3
105°	234.2	229.5	220.6	209.4	197.6	184.1	172.9	169.3	164.6	159.3	158.7
107.5°	220.6	215.9	208.3	196.5	185.8	174.0	164.0	158.7	153.4	150.4	149.8

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

Scaled Data Report

REPORT NUMBER: P1046365
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	219.5	215.9	207.7	197.6	189.4	177.6	166.4	164.6	158.7	151.6	151.0
112.5°	273.7	262.5	246.6	230.1	215.9	204.1	190.0	175.8	164.0	156.9	155.7
115°	317.4	306.2	286.7	262.5	240.1	214.7	190.6	172.9	166.4	164.6	167.0
117.5°	298.5	274.9	241.9	227.1	207.7	194.1	184.7	180.5	169.9	172.9	175.8
120°	286.7	270.8	241.9	239.5	230.7	215.3	193.5	188.8	182.9	178.2	177.6
122.5°	460.7	445.4	412.4	362.2	308.0	271.4	257.8	229.5	195.3	169.3	165.2
125°	653.1	628.3	563.4	507.9	436.0	358.7	289.1	229.5	182.9	158.1	155.2
127.5°	666.1	638.3	581.7	506.8	415.3	320.9	249.0	205.9	174.6	158.1	155.2
130°	519.2	501.5	459.6	389.4	326.2	270.2	229.5	194.7	166.4	154.0	152.2
132.5°	459.0	443.1	383.5	325.1	283.2	240.1	205.9	172.9	148.7	140.4	139.2
135°	379.3	361.6	322.1	286.1	255.4	220.6	186.4	158.1	141.0	136.9	136.3
137.5°	323.9	315.6	286.1	260.8	233.0	202.9	174.6	152.8	142.2	138.6	138.0
140°	279.6	277.9	259.6	237.2	209.4	177.6	155.7	142.8	138.6	136.9	136.3
142.5°	247.2	244.8	224.8	198.8	174.0	157.5	149.3	145.1	141.6	136.9	135.7
145°	214.2	210.0	197.6	186.4	178.8	173.4	165.8	152.8	139.2	132.1	131.6
147.5°	243.6	236.6	223.0	207.1	190.6	173.4	157.5	143.9	132.7	128.6	128.0
150°	204.7	204.1	195.3	182.9	170.5	155.2	143.4	134.5	129.8	129.2	129.2
152.5°	158.7	158.7	158.7	155.7	149.8	141.6	132.7	127.4	127.4	129.8	130.4
155°	149.3	149.8	150.4	149.3	144.5	136.9	129.2	126.8	127.4	129.8	130.4
157.5°	142.2	142.2	142.8	141.6	139.2	133.9	128.6	126.2	126.8	128.0	128.6
160°	133.9	133.9	134.5	134.5	132.1	130.4	128.0	126.2	126.2	126.8	127.4
162.5°	131.0	131.0	131.0	131.0	130.4	130.4	130.4	130.4	129.8	129.8	129.8
165°	132.1	132.1	130.4	129.8	131.0	132.7	135.7	136.3	133.3	132.7	132.7
167.5°	138.0	138.0	136.3	135.1	136.9	138.6	142.8	143.9	141.6	139.2	139.2
170°	141.6	141.6	141.6	142.2	142.8	144.5	146.9	148.1	147.5	146.9	146.9
172.5°	143.9	143.9	145.1	146.3	148.1	149.3	150.4	151.6	152.8	152.8	153.4
175°	148.7	149.3	150.4	151.0	152.2	153.4	154.6	155.7	156.3	156.3	156.3
177.5°	153.4	153.4	153.4	154.0	154.6	155.2	155.7	156.3	156.3	156.9	157.5
180°	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2	155.2

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

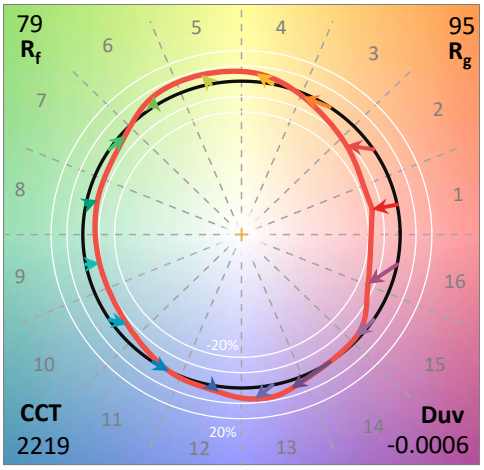
Test Information

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

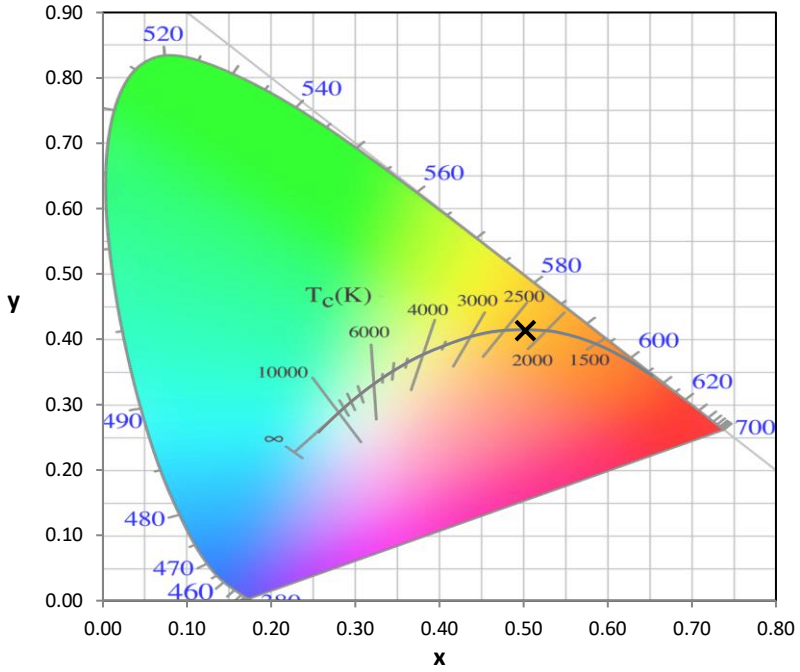
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

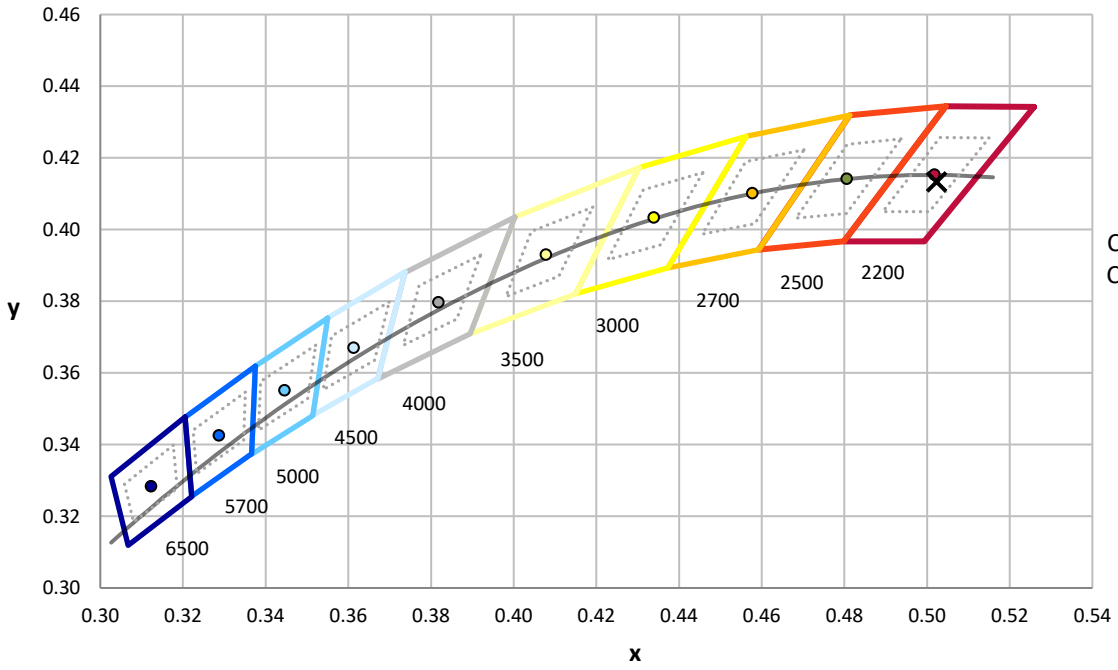
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

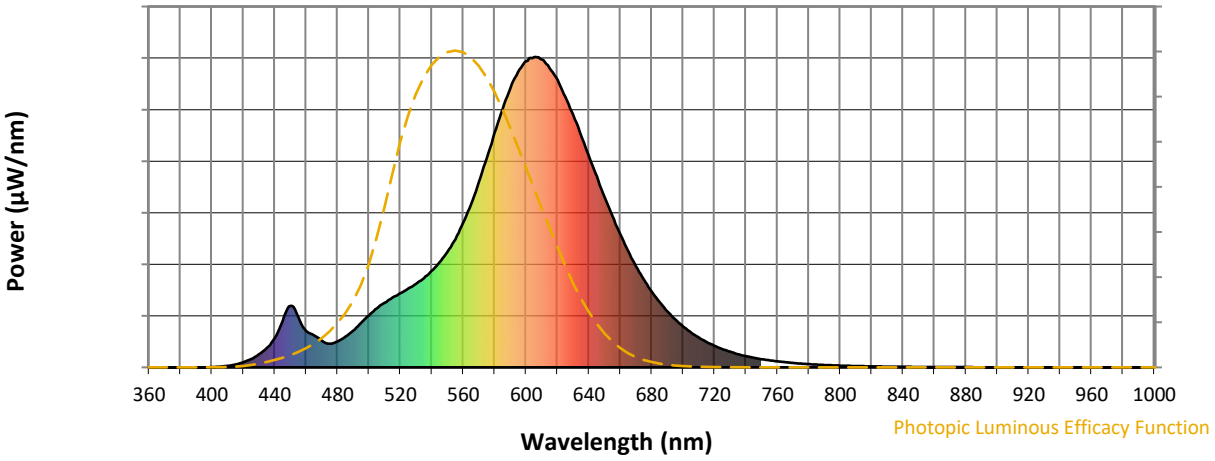


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

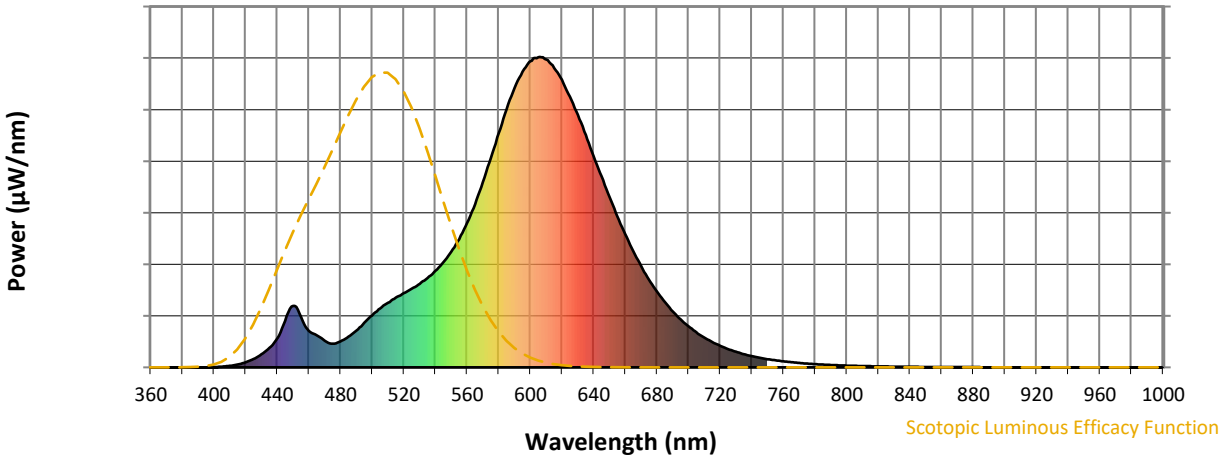


Photopic Lumens: NR

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

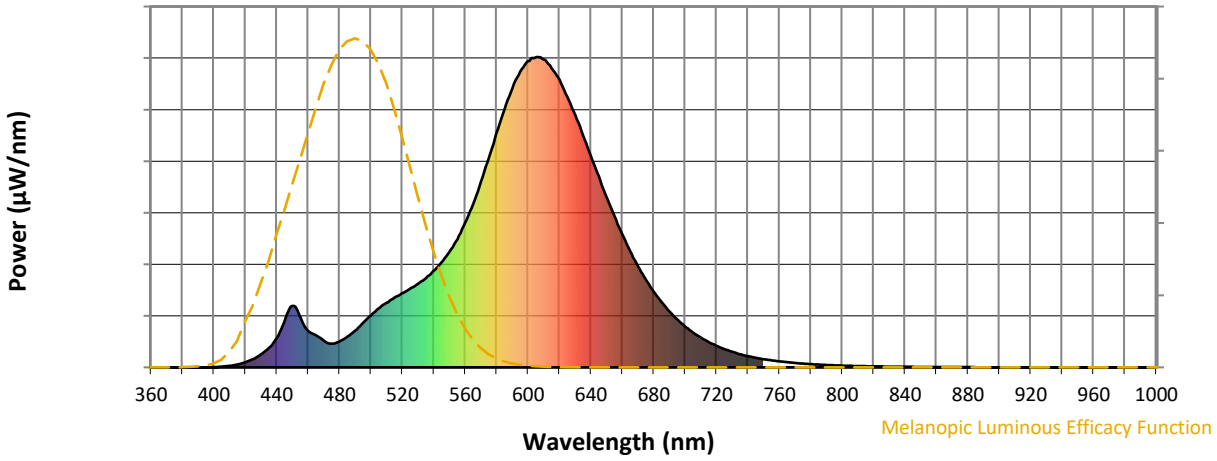


Scotopic Lumens: NR **S/P: 0.94**

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			

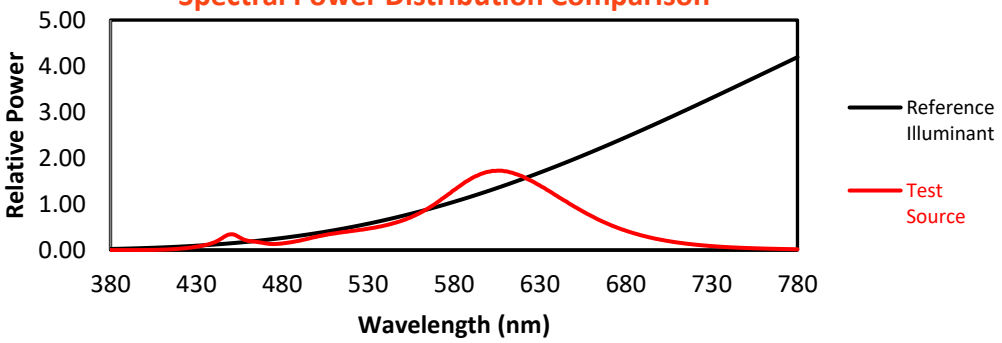
REPORT NUMBER: SP1-2501-332-2

TM-30-18

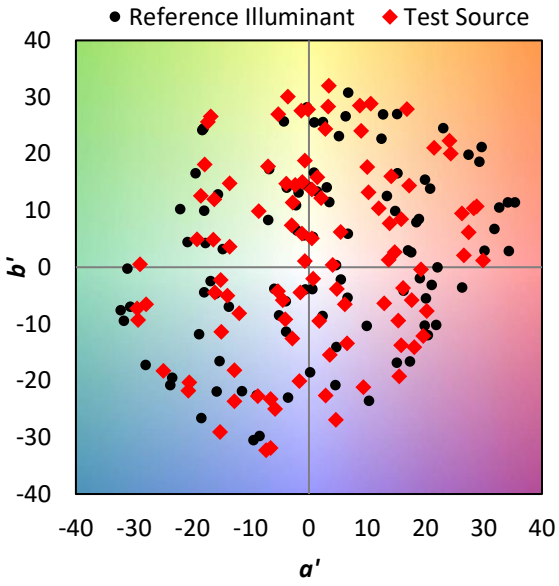
Summary

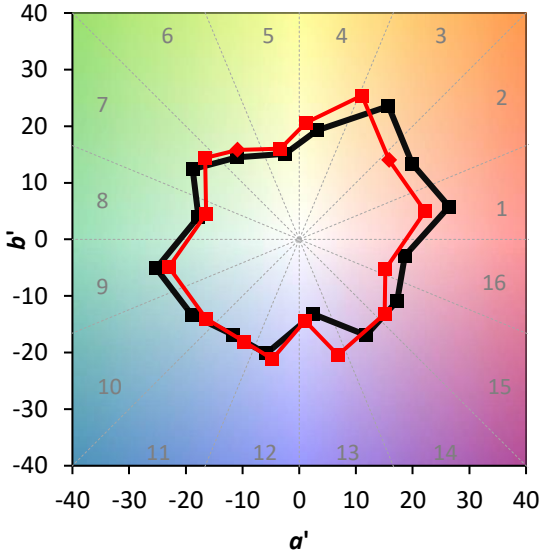
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

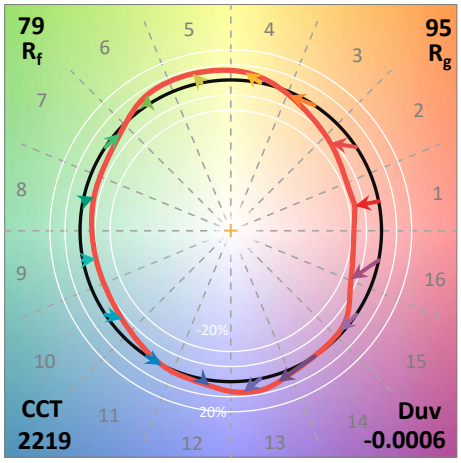
Spectral Power Distribution Comparison

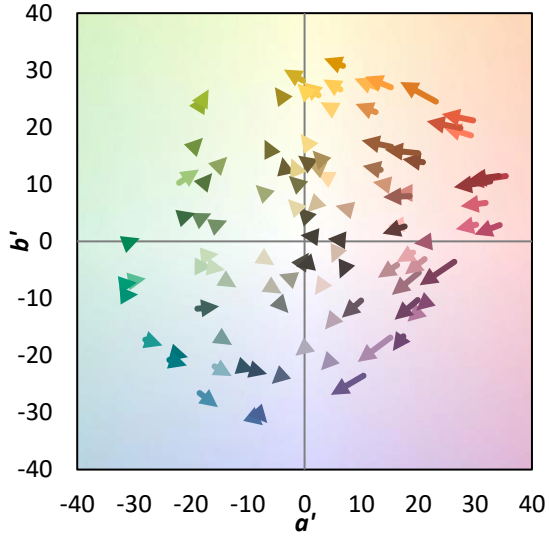


Color Vector Graphics







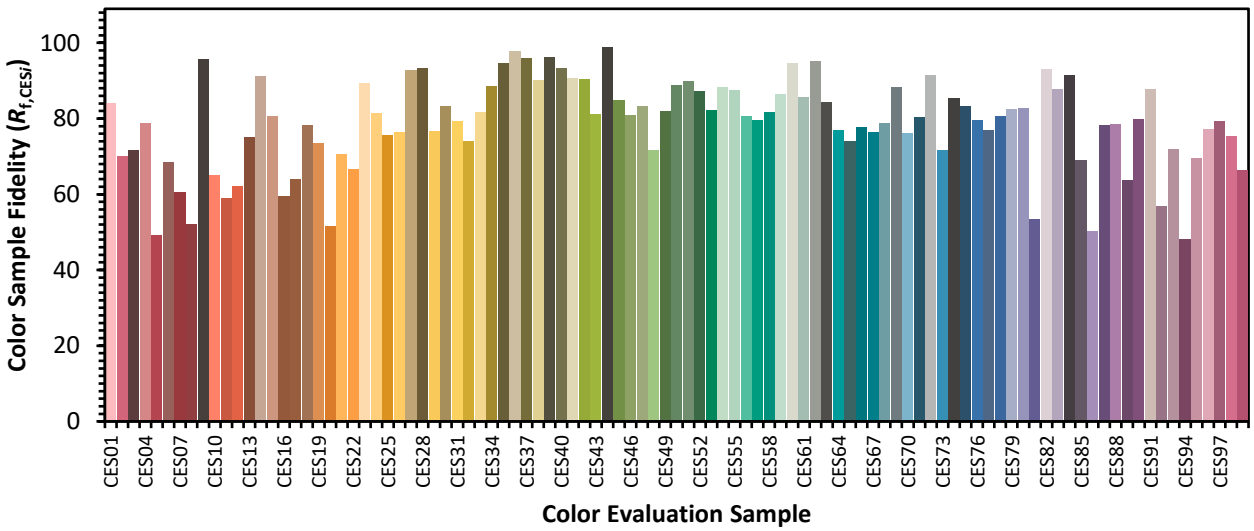


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

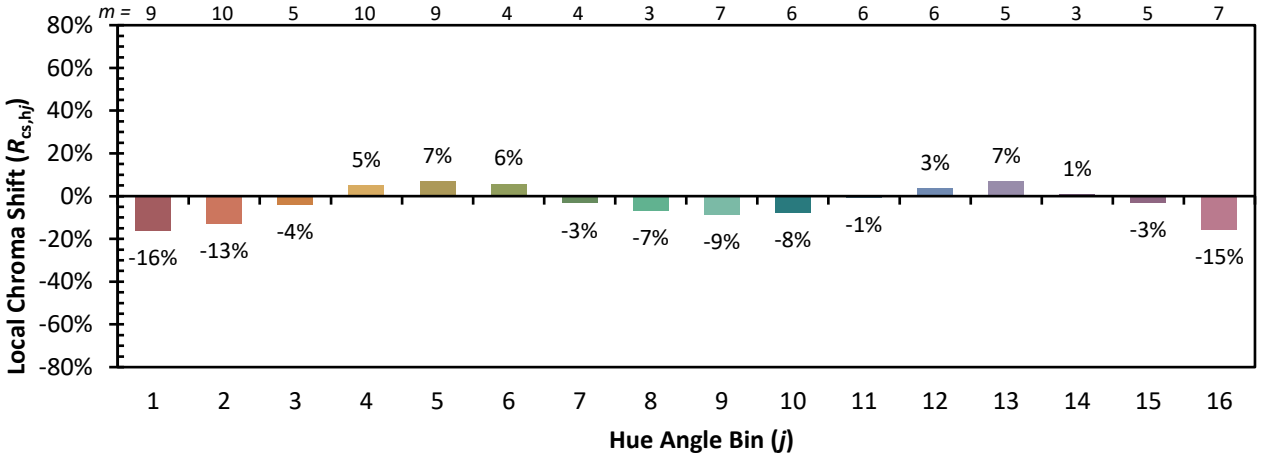
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

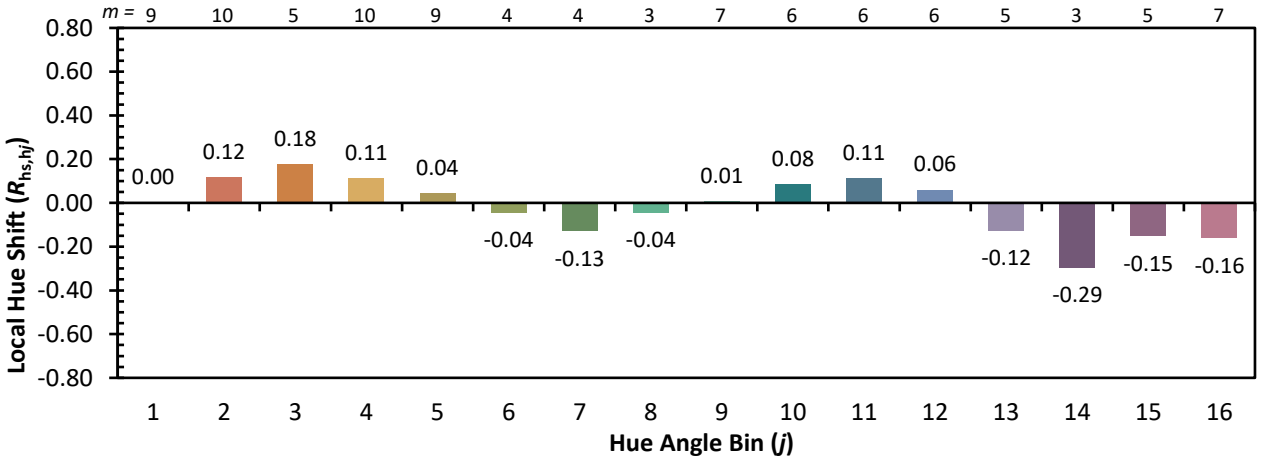


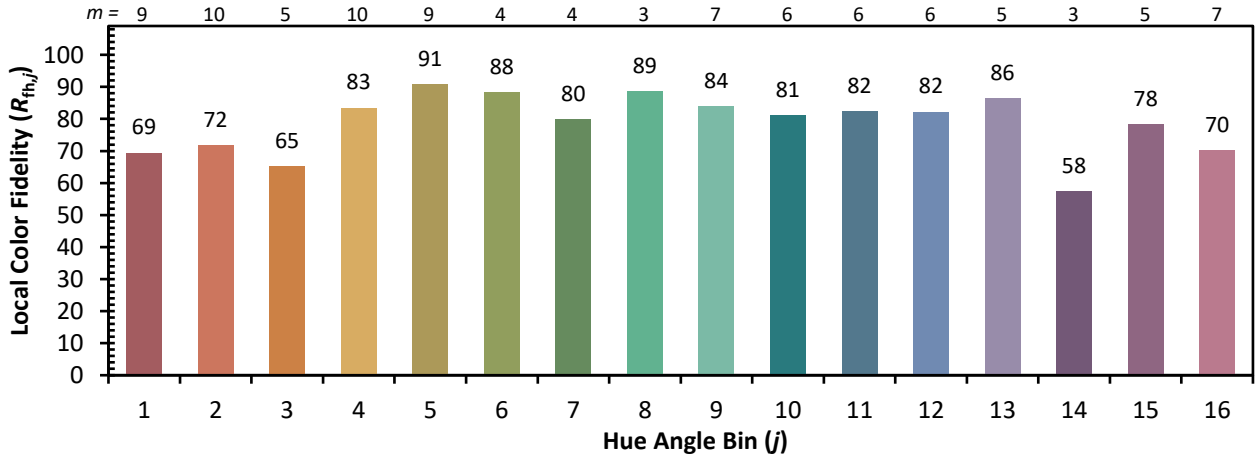
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Color Rendition by Hue-Angle Bin



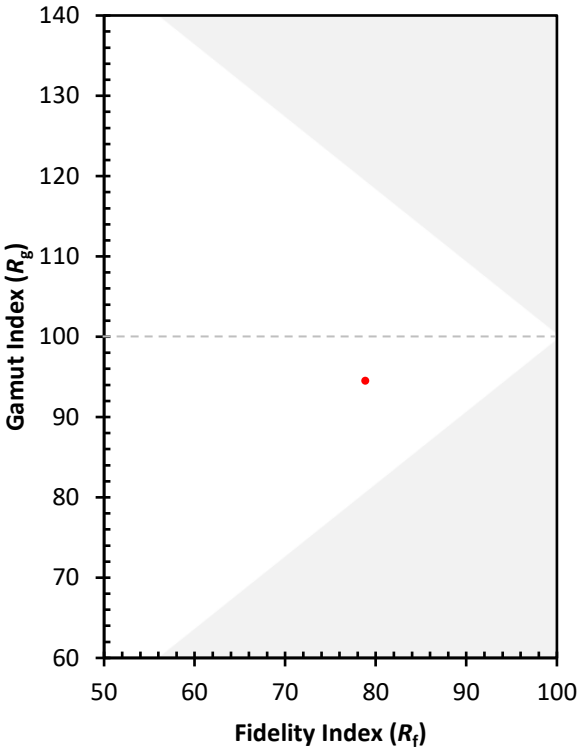


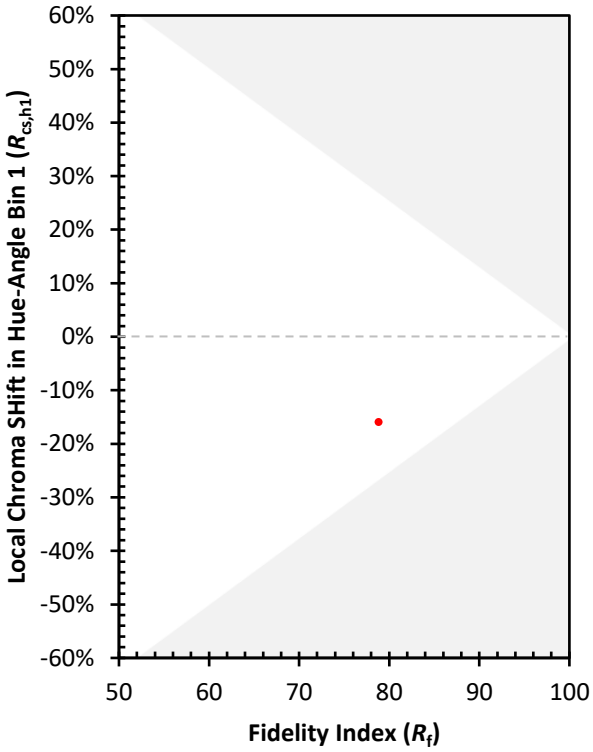


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Measure Comparisons





(END OF REPORT)