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: P981456

Luminaire Tested: **FFX-CLB-50-722-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981456
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-722-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6414.6 lumens
Efficiency:	N/A
Efficacy:	126.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B2 - U4 - G3

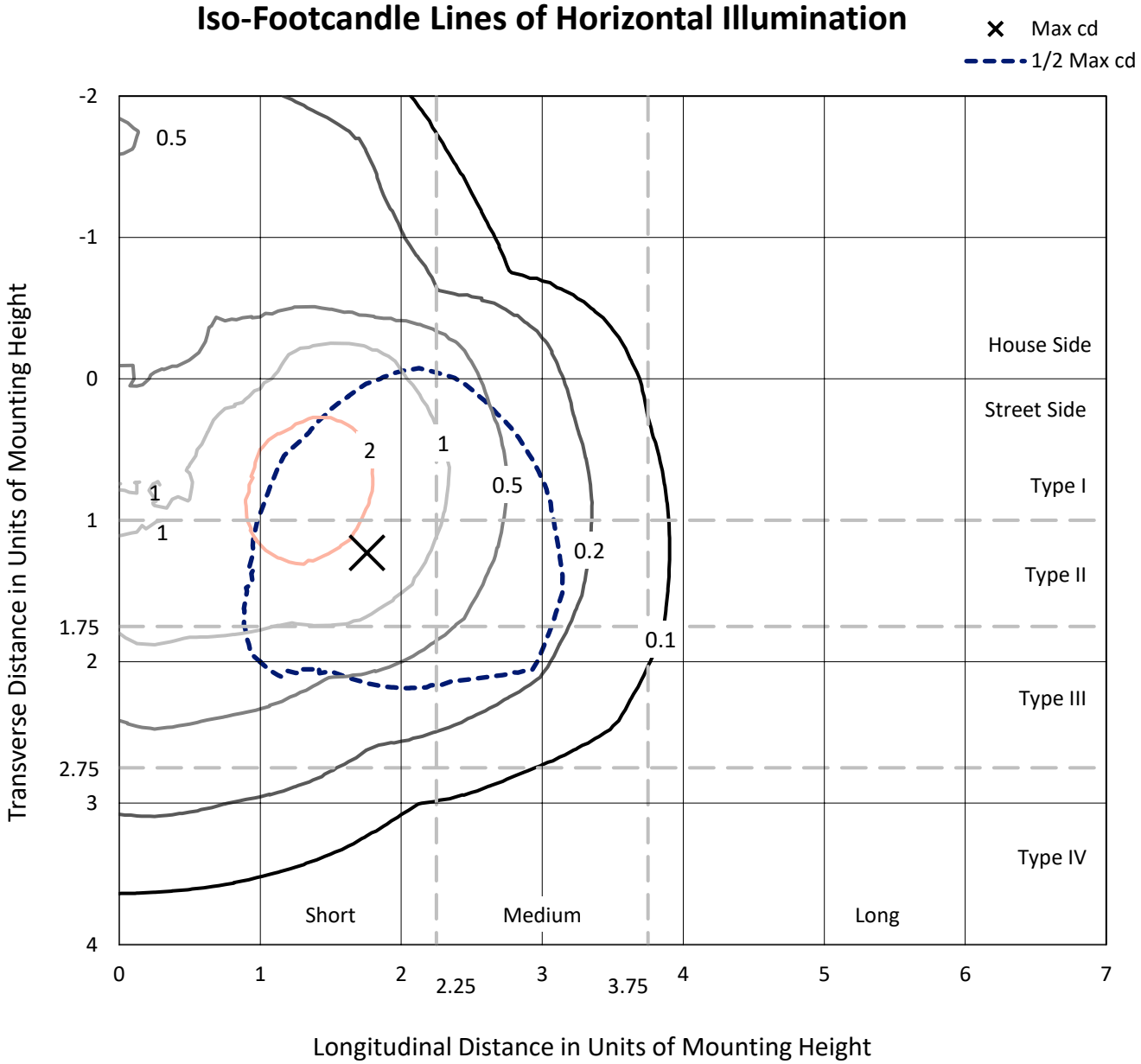
Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



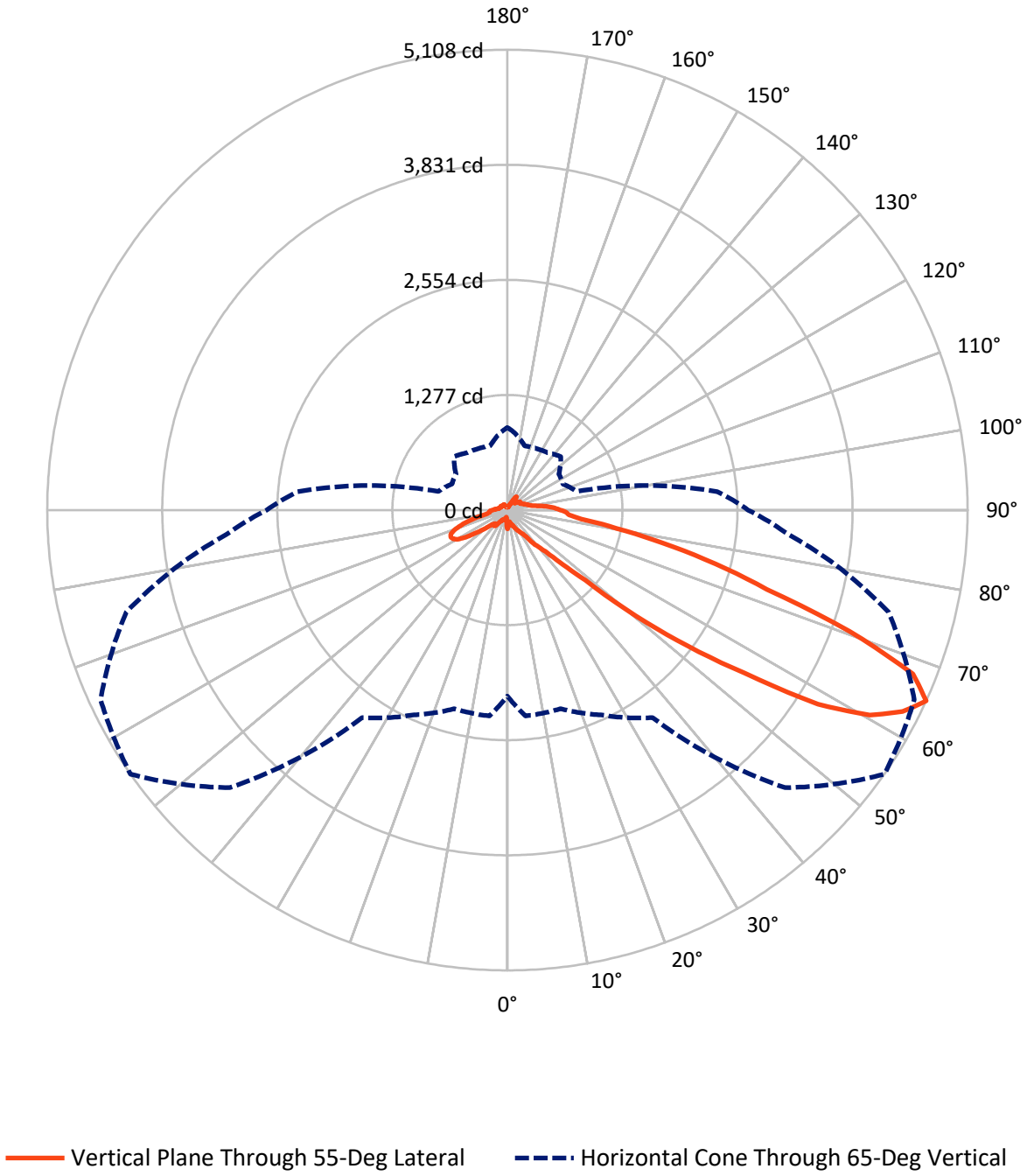
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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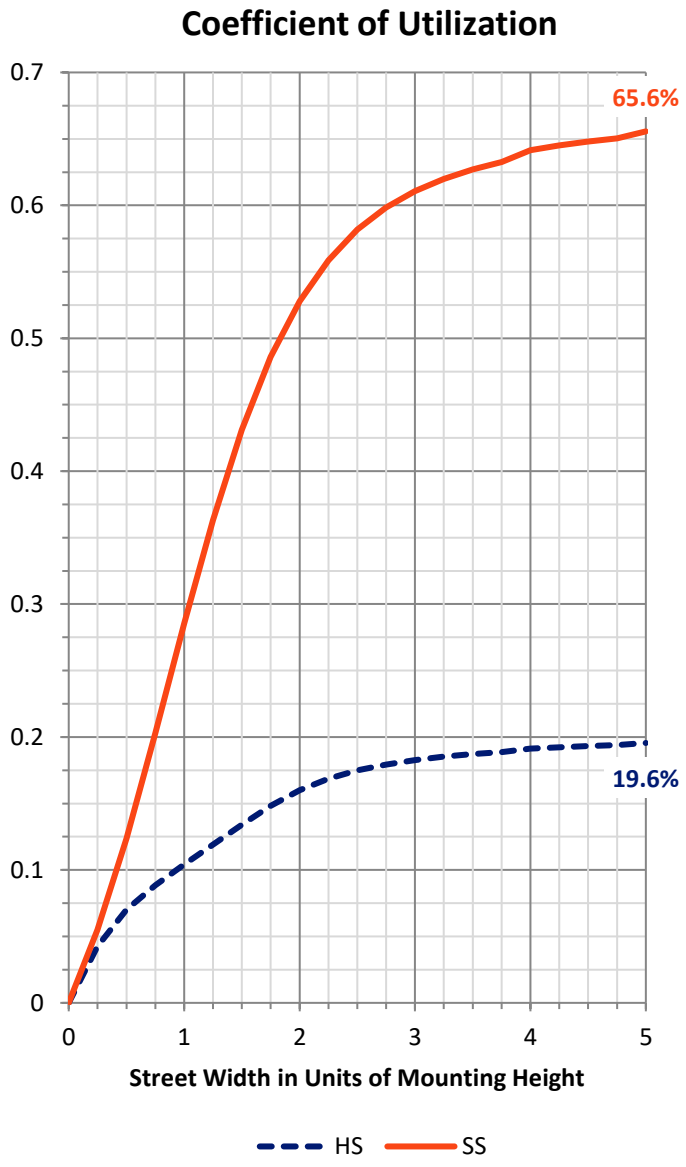
REPORT NUMBER: P981456
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.1	254.3	1557.4
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	4348.3	508.9	4857.2
	% Fixture	67.8	7.9	75.7
Total	Lumens	5651.4	763.2	6414.6
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.2
10°-20°	39.2	0.6
20°-30°	80.2	1.3
30°-40°	173.9	2.7
40°-50°	422.0	6.6
50°-60°	1317.5	20.5
60°-70°	2093.4	32.6
70°-80°	1115.6	17.4
80°-90°	397.5	6.2
90°-100°	241.8	3.8
100°-110°	143.2	2.2
110°-120°	111.8	1.7
120°-130°	93.2	1.5
130°-140°	68.1	1.1
140°-150°	62.7	1.0
150°-160°	28.3	0.4
160°-170°	10.8	0.2
170°-180°	3.2	0.0
0°-90°	5651.4	88.1
0°-180°	6414.6	100.0



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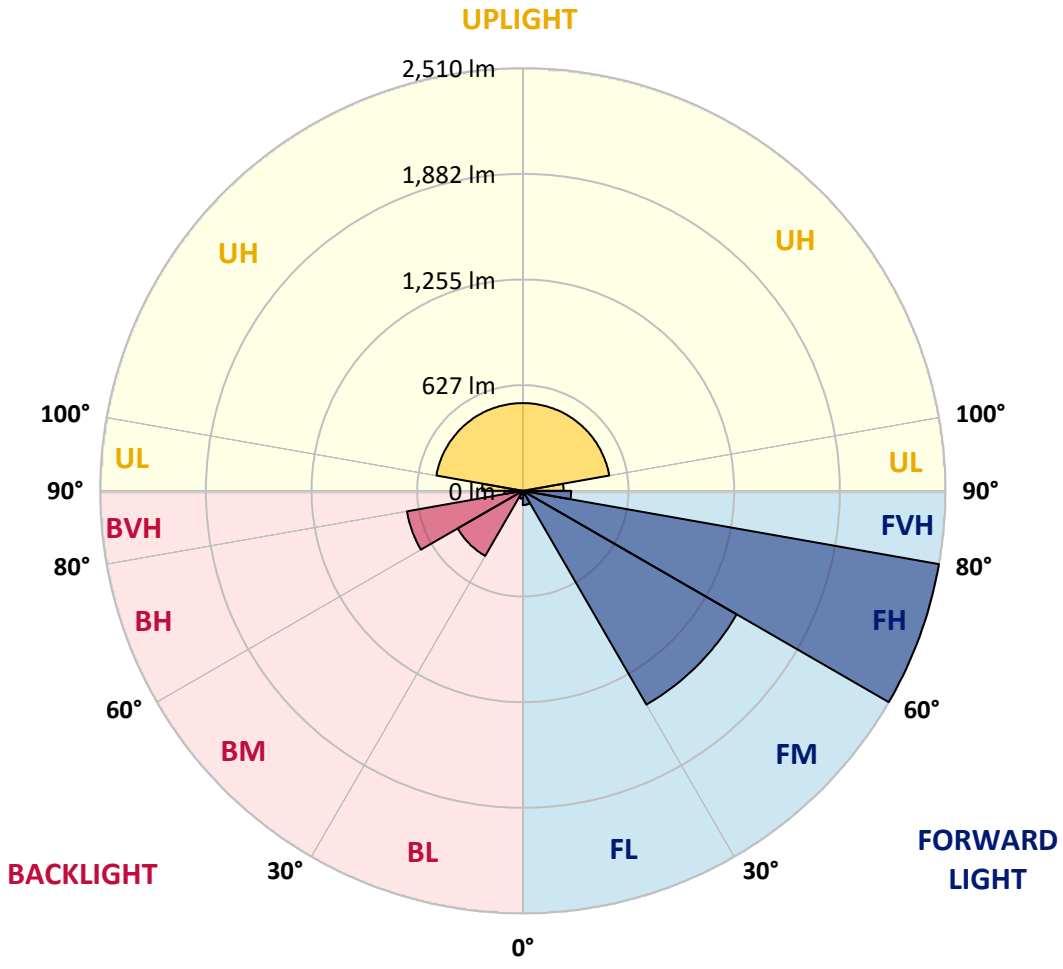
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	84.8	1.3			
FM	(30°-60°)	1466.7	22.9			
FH	(60°-80°)	2510.0	39.1			G2/5000
FVH	(80°-90°)	286.8	4.5			G3/500
BL	(0°-30°)	46.7	0.7	B0/110		
BM	(30°-60°)	446.7	7.0	B1/1000		
BH	(60°-80°)	699.1	10.9	B2/1000		G2/1000
BVH	(80°-90°)	110.7	1.7			G2/225
UL	(90°-100°)	241.8	3.8		U3/500	
UH	(100°-180°)	521.3	8.1		U4/1000	

BUG Rating: B2-U4-G3
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	208.1	208.1	208.1	208.1	208.1	208.1	*208.1*	208.1	208.1	208.1	208.1
2.5°	124.3	125.1	139.0	149.9	163.4	159.5	*159.5*	189.0	208.6	237.2	234.6
5°	133.0	127.3	129.9	139.5	157.7	166.4	*156.9*	124.3	103.0	111.7	122.1
7.5°	145.6	144.3	141.2	132.1	125.1	143.8	*169.9*	151.2	114.3	96.0	92.1
10°	149.0	149.5	148.6	149.5	152.9	144.7	*129.9*	118.2	114.7	113.0	111.7
12.5°	180.3	179.9	181.6	179.4	171.2	161.2	*164.2*	155.5	138.6	126.9	123.8
15°	210.3	209.4	209.0	200.7	187.3	171.2	*163.4*	167.3	156.4	142.9	136.9
17.5°	222.5	222.5	213.8	202.0	193.8	182.5	*176.4*	172.1	163.8	155.1	147.7
20°	217.7	217.2	208.6	203.8	204.6	199.4	*194.2*	187.7	179.4	165.5	156.4
22.5°	215.1	215.1	212.0	210.7	218.1	216.4	*215.1*	206.8	196.0	175.5	163.8
25°	232.0	230.7	226.8	226.8	233.8	239.4	*241.6*	235.1	217.2	186.4	175.5
27.5°	248.5	248.1	242.9	244.2	248.5	259.8	*263.3*	260.3	235.9	195.5	186.0
30°	268.5	265.5	261.1	269.0	268.1	283.7	*288.5*	292.0	261.1	214.2	202.9
32.5°	289.8	288.1	284.6	294.6	298.1	312.4	*316.3*	333.7	295.5	247.7	235.9
35°	325.9	324.6	333.7	353.2	352.8	379.7	*369.3*	395.4	359.3	308.1	296.3
37.5°	488.4	481.0	470.6	451.9	450.6	487.9	*476.2*	496.6	445.8	373.7	360.6
40°	508.4	507.1	502.3	481.0	468.8	532.7	*540.5*	600.9	517.0	434.5	409.3
42.5°	496.6	498.4	562.2	575.7	550.9	629.6	*642.6*	748.6	597.4	527.0	481.0
45°	598.7	601.3	622.2	631.8	630.0	827.7	*859.9*	989.8	738.2	657.0	571.8
47.5°	685.6	676.5	714.3	787.3	837.3	1060.6	*1164.0*	1363.4	991.9	872.0	714.3
50°	942.0	939.8	1031.1	1111.0	1160.5	1525.9	*1844.4*	2063.4	1453.8	1264.4	996.7
52.5°	1115.8	1189.6	1277.0	1462.1	1506.8	2076.4	*2507.5*	2683.0	2009.1	1660.6	1360.8
55°	1292.2	1398.6	1496.4	1784.5	1933.1	2697.8	*3188.3*	3236.5	2638.7	2019.1	1717.1
57.5°	1620.2	1799.7	1862.7	2092.5	2309.8	3413.8	*4064.2*	4013.0	3287.8	2434.9	2115.1
60°	1917.0	2132.9	2114.7	2339.7	2619.1	3997.3	*4620.4*	4566.5	3881.8	2804.2	2421.0
62.5°	2016.5	2234.2	2209.4	2454.5	2811.6	4310.2	*4923.7*	4831.6	4270.6	3041.0	2590.4
65°	*2063.0*	*2294.1*	*2282.0*	*2510.5*	*2811.6*	*4355.4*	*5108.3*	*4982.3*	*4379.3*	*3132.3*	*2672.1*
67.5°	2022.1	2245.0	2252.8	2455.8	2646.1	4029.1	*4856.3*	4685.1	4107.3	2913.3	2526.1
70°	1767.5	1923.5	1903.9	2087.7	2106.4	3225.2	*4030.4*	3844.0	3336.9	2429.3	2090.3
72.5°	1460.3	1498.1	1482.1	1598.1	1619.8	2362.3	*3012.3*	2906.8	2491.8	1807.5	1597.2
75°	1164.4	1158.4	1191.4	1218.3	1195.7	1734.1	*2385.4*	2265.4	1843.6	1361.3	1229.2
77.5°	805.6	759.1	846.0	854.2	818.6	1153.1	*1759.7*	1714.1	1321.3	1003.2	905.9
80°	452.7	458.0	520.1	557.0	544.0	733.9	*1224.4*	1194.4	902.4	701.3	623.1
82.5°	349.3	365.0	394.1	421.9	403.6	561.4	*828.1*	830.3	660.0	512.3	467.9
85°	384.1	392.3	396.3	397.1	382.8	521.8	*686.5*	677.4	560.5	428.8	414.9
87.5°	374.5	383.2	384.5	385.0	372.4	497.1	*650.0*	635.7	534.4	411.9	390.6
90°	321.1	335.9	337.6	348.9	334.1	444.1	*572.2*	557.9	481.9	371.5	351.5
92.5°	275.9	283.7	292.0	305.4	289.8	386.7	*512.3*	494.5	431.5	335.9	308.5
95°	252.4	256.8	263.7	269.0	250.7	328.5	*428.4*	409.7	350.2	270.3	245.9
97.5°	202.9	206.8	209.9	216.4	203.8	260.3	*332.4*	315.0	274.6	215.1	196.8
100°	173.4	176.0	179.4	183.8	173.4	218.1	*272.9*	265.0	228.5	181.6	169.9
102.5°	158.6	160.8	166.8	166.8	160.3	199.4	*243.8*	237.7	205.5	164.7	156.9
105°	152.9	153.4	158.6	156.4	152.1	186.0	*227.2*	219.4	192.5	156.4	147.3
107.5°	145.6	146.0	152.5	149.0	145.6	172.5	*205.9*	202.5	178.1	146.0	138.2
110°	138.2	139.5	147.7	144.7	142.5	162.1	*192.9*	186.4	170.3	141.2	134.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	132.5	133.4	141.2	139.0	137.3	155.1	*179.0*	179.0	166.4	141.2	132.5
115°	127.7	129.5	136.0	131.7	128.6	146.0	*165.1*	166.0	155.5	134.7	126.0
117.5°	119.5	123.4	126.9	128.6	125.1	139.9	*156.9*	156.0	150.3	129.9	123.8
120°	136.0	133.0	135.6	138.6	133.0	144.7	*159.0*	159.0	153.4	127.7	122.5
122.5°	142.1	137.7	140.3	137.3	136.9	152.1	*169.9*	171.2	159.5	131.7	118.6
125°	126.0	124.3	121.2	120.4	123.8	138.2	*154.2*	159.9	147.3	126.0	110.8
127.5°	107.8	105.6	101.7	103.8	110.4	124.7	*133.0*	136.0	130.8	116.9	105.6
130°	99.5	99.1	102.1	106.0	111.2	123.4	*126.0*	130.3	130.3	113.8	107.3
132.5°	90.8	91.2	100.8	114.3	118.2	120.8	*115.1*	123.4	127.3	116.0	108.6
135°	89.5	89.9	95.2	106.0	106.5	108.2	*108.6*	119.1	121.7	110.8	102.5
137.5°	97.8	97.8	93.9	96.0	100.8	113.8	*118.2*	126.4	124.3	104.7	92.5
140°	107.8	105.6	93.4	93.9	102.1	118.2	*123.8*	129.0	126.4	102.5	88.2
142.5°	89.1	89.9	92.1	100.4	109.9	146.4	*141.6*	154.7	149.5	108.6	86.0
145°	139.0	139.5	136.9	140.3	146.4	194.7	*179.9*	200.7	206.8	142.1	102.1
147.5°	152.1	153.8	149.0	146.0	163.4	178.1	*161.6*	179.0	190.7	149.0	109.5
150°	118.6	118.2	115.1	119.5	131.2	130.3	*121.7*	127.7	132.5	113.8	93.9
152.5°	84.3	83.0	81.3	81.7	95.6	92.1	*89.5*	94.7	94.7	87.3	75.2
155°	70.0	70.0	69.1	71.3	79.1	73.0	*70.8*	70.0	69.1	66.9	62.1
157.5°	59.1	60.4	59.1	61.7	66.9	61.3	*60.0*	58.7	59.1	59.1	57.8
160°	49.1	49.1	48.2	52.6	54.3	50.0	*47.8*	46.9	46.9	49.5	49.5
162.5°	41.3	41.3	41.7	43.4	44.8	41.7	*40.4*	40.4	41.7	45.6	45.6
165°	35.6	35.6	36.1	37.4	38.2	36.5	*35.6*	36.1	39.5	43.0	43.0
167.5°	32.6	32.6	32.6	33.0	33.5	32.6	*32.6*	34.3	37.4	39.5	39.5
170°	30.8	30.8	30.4	30.8	30.8	30.8	*32.6*	34.3	35.6	35.6	35.6
172.5°	31.3	31.3	30.8	31.3	31.3	30.8	*33.0*	35.2	34.3	33.9	33.9
175°	32.2	32.2	32.2	32.6	32.6	31.7	*31.3*	32.2	33.0	33.0	32.6
177.5°	32.2	32.2	31.7	32.2	31.7	30.8	*30.4*	30.0	30.0	29.5	29.5
180°	30.0	30.0	30.0	30.0	30.0	30.0	*30.0*	30.0	30.0	30.0	30.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1
2.5°	212.5	183.4	161.6	178.6	215.9	234.6	215.9	164.2	115.6	101.2
5°	127.3	123.8	111.7	109.1	113.8	109.5	121.7	115.1	91.2	92.1
7.5°	95.2	115.1	111.2	79.5	74.3	69.5	73.4	83.9	86.5	80.8
10°	110.4	99.5	86.9	80.8	88.2	95.2	90.4	78.6	67.8	64.7
12.5°	121.7	120.8	122.1	109.5	89.9	83.0	80.4	86.5	105.1	109.5
15°	130.8	120.8	111.7	109.1	96.0	89.1	85.6	83.9	80.4	77.8
17.5°	139.9	123.4	113.4	103.4	96.9	90.4	83.0	79.1	78.6	79.1
20°	146.0	130.8	119.1	107.8	99.5	90.8	83.4	79.9	79.9	79.9
22.5°	153.4	138.6	126.0	111.7	102.1	92.5	86.5	83.0	82.6	82.6
25°	165.5	149.0	134.3	118.6	108.2	99.5	91.2	86.9	85.6	85.2
27.5°	179.4	161.2	143.4	127.3	116.4	106.9	96.0	89.5	87.8	87.3
30°	197.3	176.4	153.8	136.9	123.4	114.3	101.2	93.4	89.9	89.5
32.5°	226.4	199.0	169.5	150.8	134.7	122.5	108.2	98.6	93.0	91.7
35°	282.4	249.0	204.6	177.7	152.1	133.0	114.3	101.7	96.0	95.2
37.5°	345.0	294.2	251.1	219.9	188.6	156.4	123.8	106.5	99.5	98.2
40°	371.9	323.7	278.1	229.0	222.0	196.8	152.1	118.2	104.3	102.1
42.5°	431.0	362.4	300.7	202.5	218.6	217.2	187.7	144.7	117.3	112.1
45°	507.5	412.3	334.6	216.4	220.3	212.5	192.5	167.3	142.5	136.9
47.5°	632.2	461.0	345.4	243.3	247.7	229.0	201.6	176.4	158.6	156.4
50°	902.9	603.9	385.4	294.6	308.5	265.5	231.6	209.9	188.6	184.7
52.5°	1227.4	715.6	426.7	367.6	417.5	355.8	304.6	264.6	263.3	258.1
55°	1569.4	758.6	481.4	448.0	525.7	472.3	422.3	385.8	404.5	406.3
57.5°	1953.5	804.7	560.5	553.1	657.0	571.8	529.6	539.6	672.2	723.9
60°	2209.4	842.5	628.7	640.0	776.9	693.9	662.2	684.3	909.4	1003.7
62.5°	2323.2	823.4	662.2	681.7	828.6	768.2	763.0	774.7	965.4	1053.6
65°	*2338.9*	*795.1*	*680.4*	*697.4*	*837.7*	*776.0*	*753.8*	*737.3*	*864.2*	*915.9*
67.5°	2146.8	735.2	666.1	683.9	796.4	722.6	667.4	630.0	703.4	708.7
70°	1747.1	656.5	617.4	623.9	680.4	604.8	552.7	520.5	537.5	530.5
72.5°	1354.7	578.7	550.1	534.9	551.8	487.1	425.4	408.9	424.9	417.5
75°	1029.3	517.0	485.3	434.1	461.9	375.0	306.3	291.5	298.5	288.5
77.5°	756.9	416.7	379.7	321.1	359.3	272.0	206.8	191.6	194.2	184.7
80°	552.2	308.1	277.6	230.3	259.0	193.3	149.5	146.9	146.4	140.3
82.5°	426.7	244.6	222.0	198.1	202.9	170.8	141.6	137.3	137.3	128.2
85°	395.8	236.8	213.8	196.8	198.1	165.5	134.7	132.1	133.4	123.8
87.5°	369.8	231.6	212.9	192.5	182.5	149.9	121.2	124.3	125.1	116.9
90°	317.2	205.9	189.0	169.5	157.7	127.3	108.6	114.3	115.1	107.8
92.5°	278.1	176.8	162.5	147.3	142.1	119.5	104.3	108.6	108.6	102.1
95°	221.6	144.7	138.2	130.8	129.5	111.7	97.3	99.5	98.6	93.0
97.5°	180.3	125.6	119.9	113.0	108.6	95.6	85.6	87.8	88.2	84.3
100°	158.6	116.0	108.2	100.4	96.0	86.0	78.2	82.1	84.7	81.3
102.5°	148.2	110.8	102.1	93.9	90.4	81.3	73.9	77.3	80.8	77.8
105°	140.8	106.9	97.8	90.4	86.0	76.9	69.5	70.4	74.7	73.0
107.5°	131.2	106.9	95.2	87.8	82.6	74.3	65.6	64.7	67.3	66.9
110°	127.7	106.9	93.4	86.0	80.4	73.0	65.2	61.7	63.0	63.0

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

Scaled Data Report

REPORT NUMBER: P981456
CATALOG NUMBER: FFX-CLB-50-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	124.7	106.0	91.7	83.0	78.2	72.1	64.3	59.1	60.4	61.3
115°	117.7	97.8	86.5	77.3	72.6	66.0	60.8	56.9	57.4	58.2
117.5°	113.8	90.4	83.9	75.6	72.1	68.2	63.4	56.0	56.0	56.9
120°	113.8	89.1	86.0	83.0	81.3	74.7	66.9	56.0	54.7	54.7
122.5°	112.1	99.1	93.9	86.9	82.1	73.4	63.9	54.7	53.9	53.9
125°	103.0	94.7	86.5	78.2	72.6	65.6	60.0	55.2	53.4	53.4
127.5°	98.2	85.2	77.3	70.8	66.9	63.4	60.0	55.2	53.0	52.6
130°	99.5	86.0	76.0	70.8	67.8	64.3	60.4	54.3	50.8	50.4
132.5°	100.4	83.0	73.4	69.1	66.9	64.3	59.1	51.3	47.4	47.4
135°	90.8	74.7	70.4	67.3	66.0	63.9	56.0	48.7	45.6	45.2
137.5°	82.6	72.6	69.5	66.5	64.3	61.3	55.2	47.8	43.9	43.4
140°	79.1	70.8	66.5	60.8	58.2	52.1	47.8	43.4	42.1	41.7
142.5°	75.2	66.5	61.3	56.5	55.2	53.0	50.4	43.4	39.1	39.1
145°	89.9	79.9	73.9	69.1	63.0	58.7	50.4	41.7	36.1	35.2
147.5°	94.3	85.2	79.1	72.6	61.3	51.7	42.6	36.5	34.3	33.5
150°	82.6	74.7	68.2	61.3	51.3	44.8	38.7	34.8	33.9	33.9
152.5°	65.6	61.3	54.3	49.5	43.0	39.1	35.6	33.5	32.6	32.6
155°	54.3	50.8	46.9	43.0	39.5	36.9	34.8	33.0	32.2	32.2
157.5°	52.6	47.4	43.9	40.4	38.2	35.6	33.9	32.2	31.7	31.3
160°	47.8	41.7	38.7	36.5	36.1	35.2	33.9	32.6	32.2	31.7
162.5°	44.3	38.2	36.1	34.8	36.1	36.9	36.1	34.3	33.0	32.6
165°	41.7	36.1	34.3	34.3	36.9	38.2	36.1	34.3	34.3	33.9
167.5°	38.7	36.9	34.8	34.3	36.5	39.1	39.5	36.5	35.2	34.8
170°	36.1	36.5	36.5	35.2	35.6	37.8	38.7	37.8	36.1	35.6
172.5°	34.3	35.2	36.9	36.1	36.1	36.9	37.8	36.9	35.6	35.2
175°	32.6	33.0	32.2	32.6	33.9	35.2	34.8	34.3	33.9	33.9
177.5°	29.5	29.5	30.0	30.0	30.4	31.7	32.2	32.2	33.0	33.0
180°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0

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

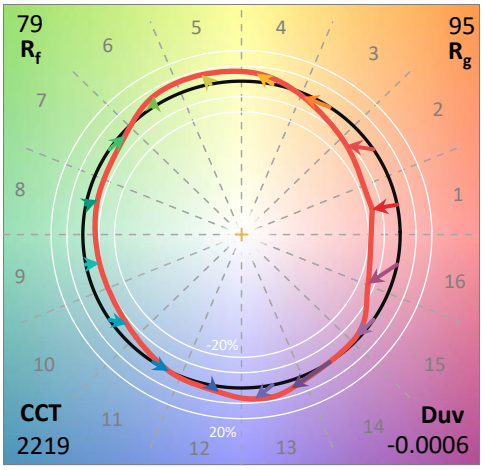
Test Information

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

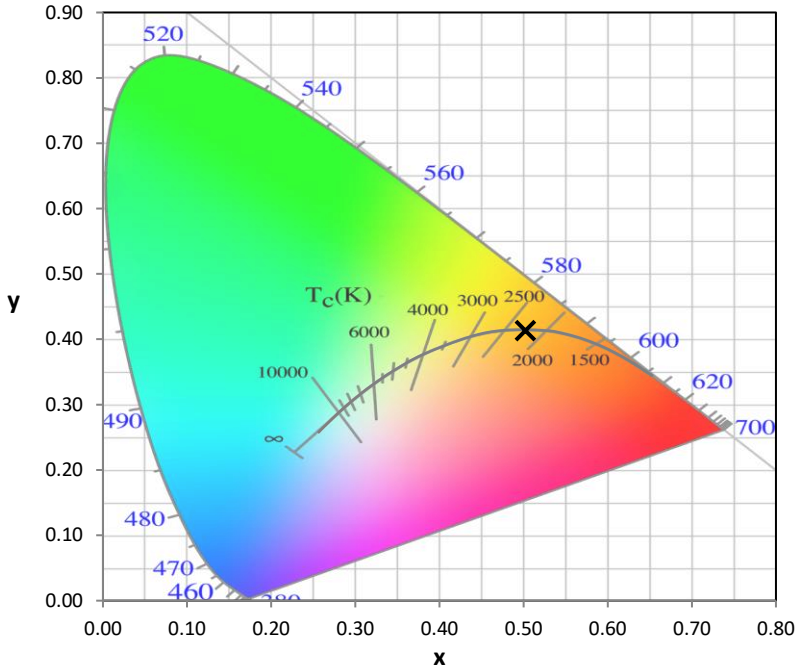
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

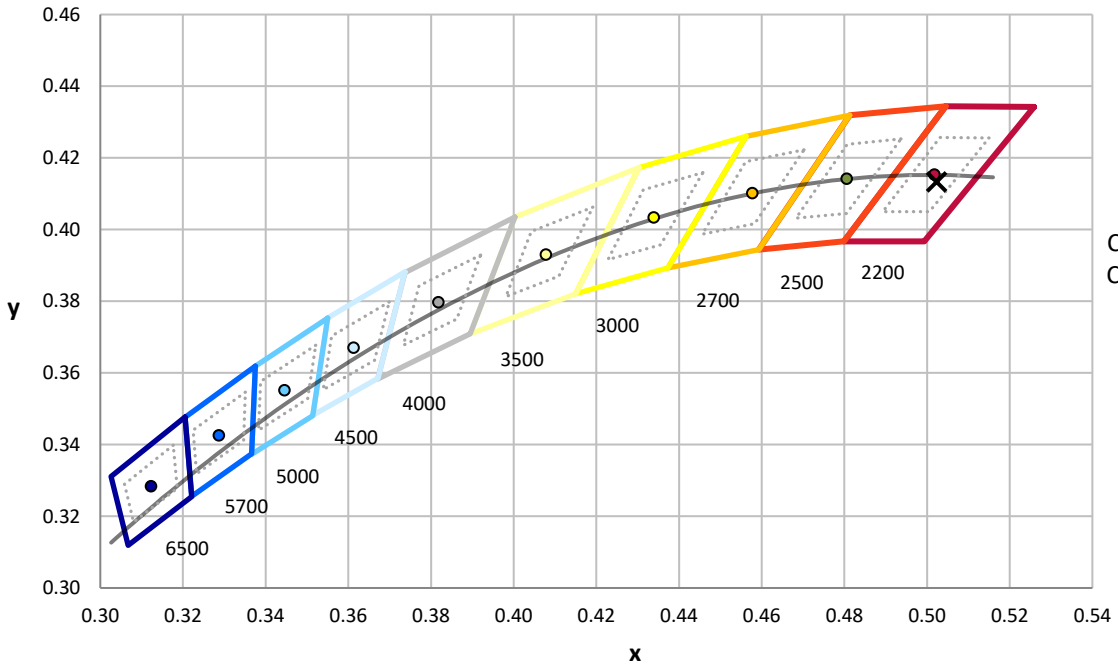
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

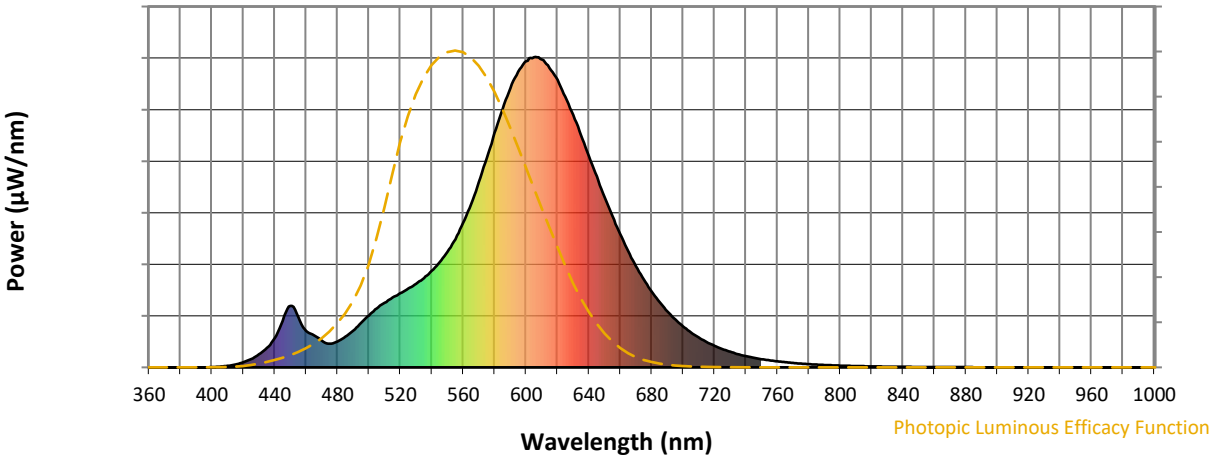


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

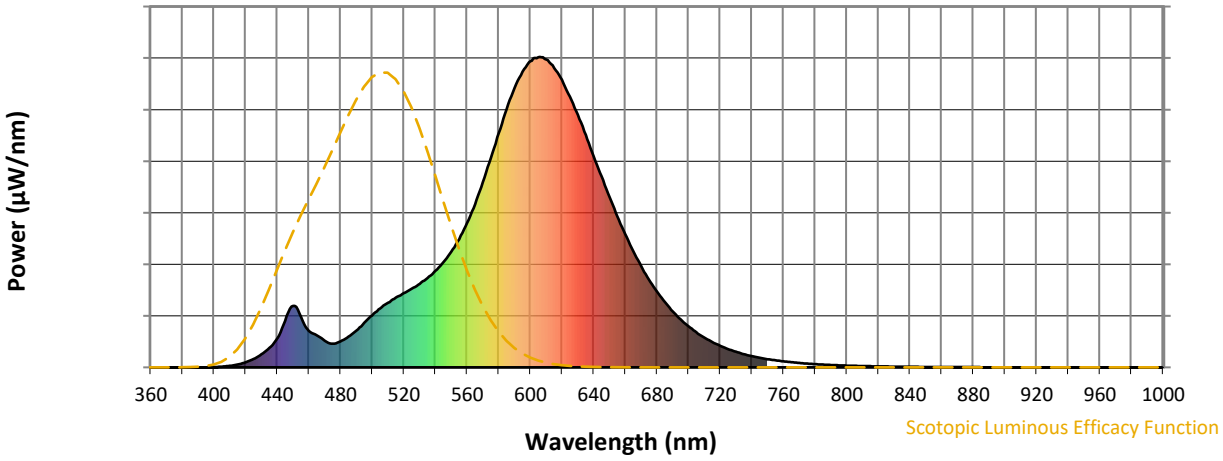


Photopic Lumens: NR

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

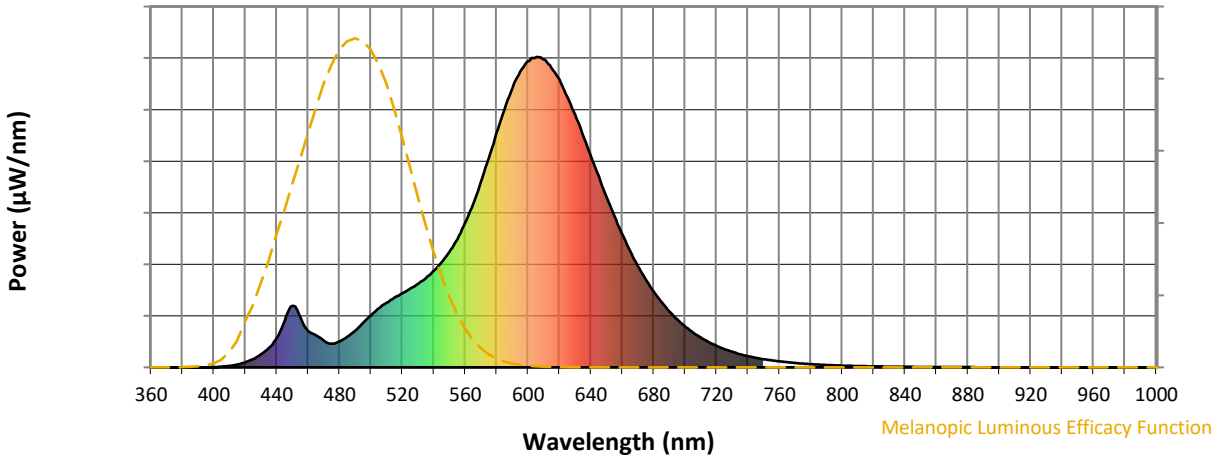


Scotopic Lumens: NR **S/P: 0.94**

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			

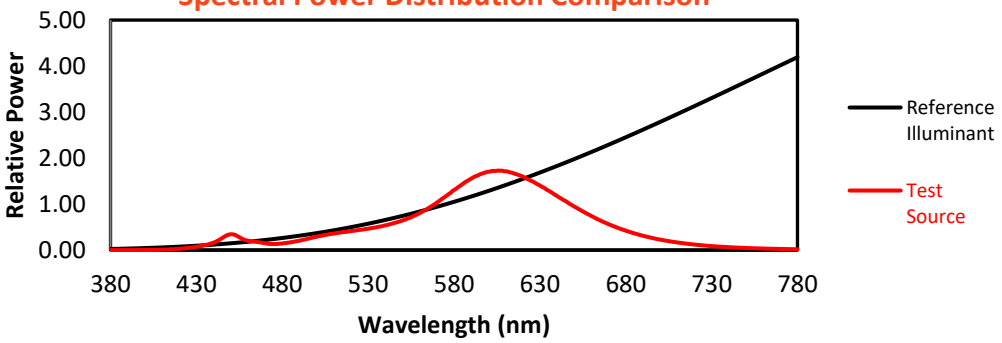
REPORT NUMBER: SP1-2501-332-2

TM-30-18

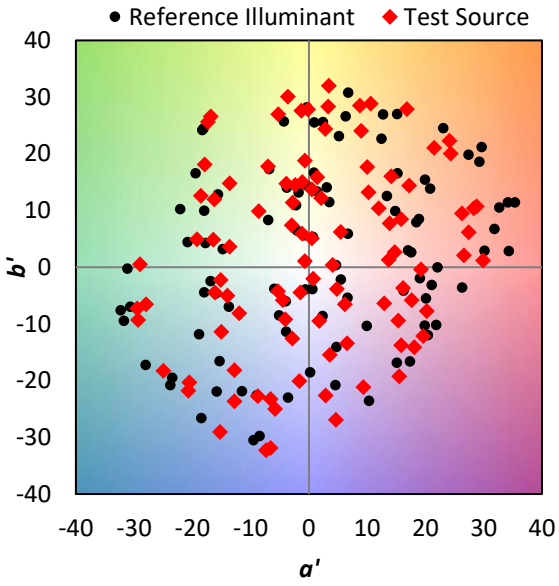
Summary

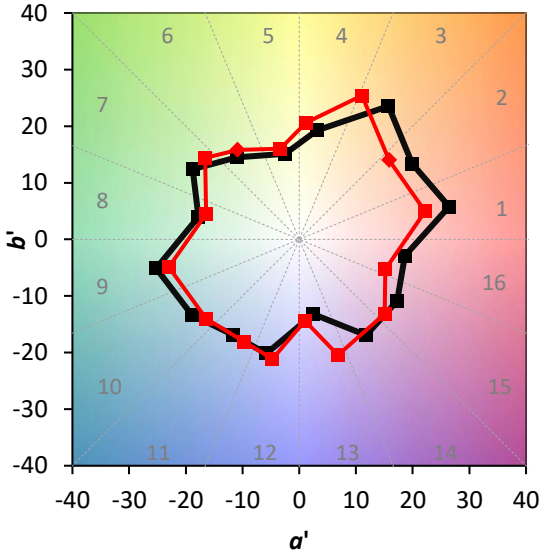
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

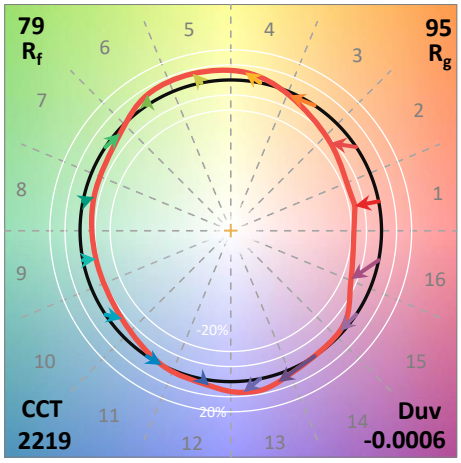
Spectral Power Distribution Comparison

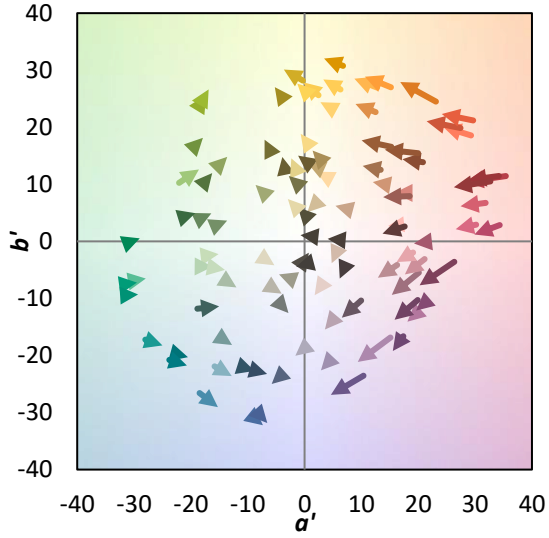


Color Vector Graphics







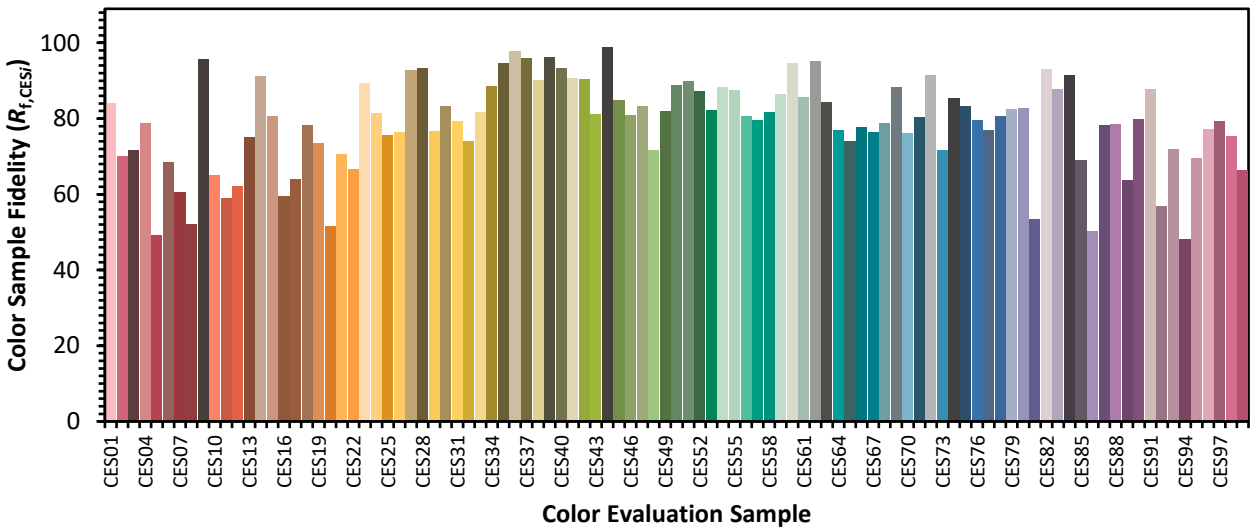


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

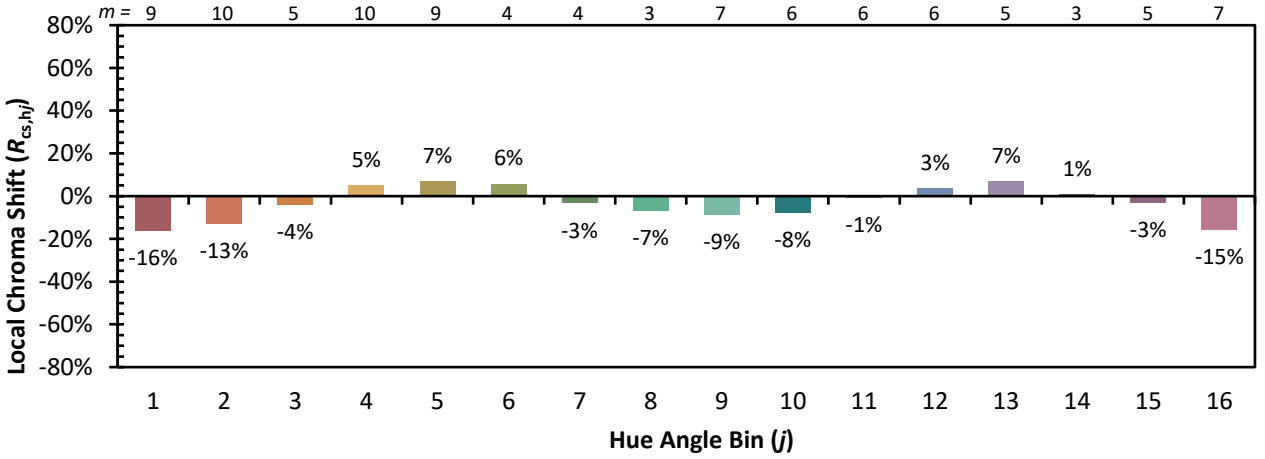
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

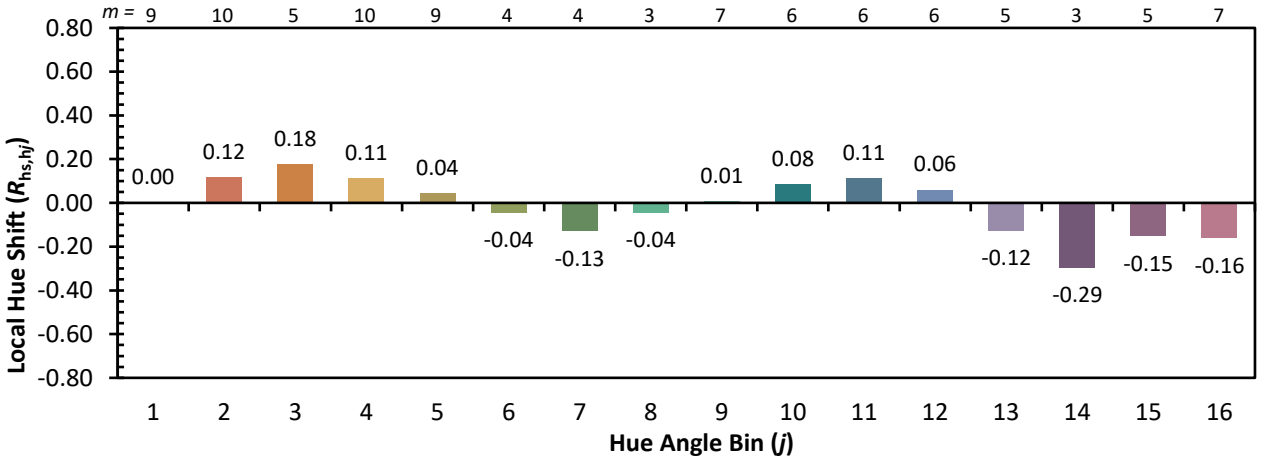


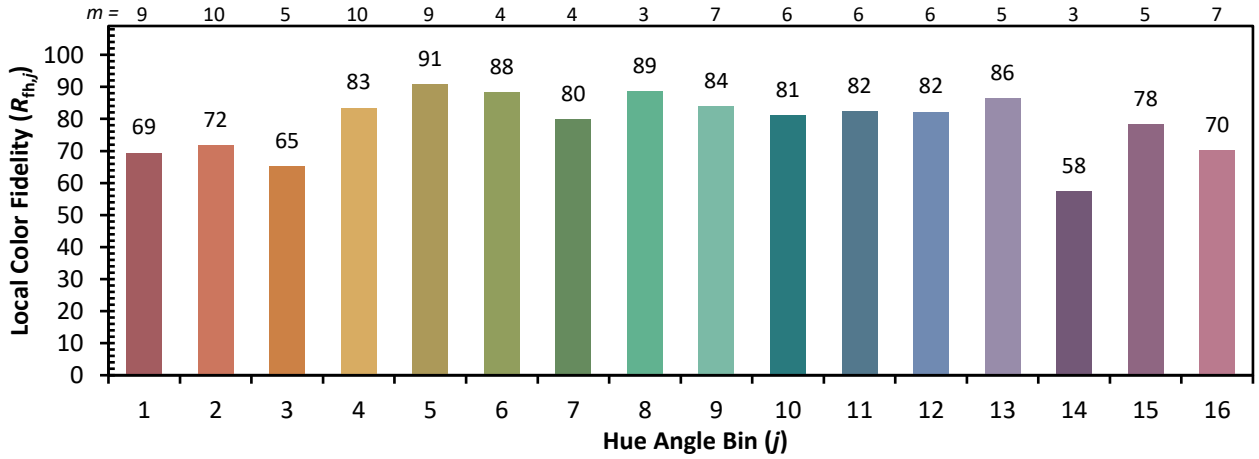
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Color Rendition by Hue-Angle Bin



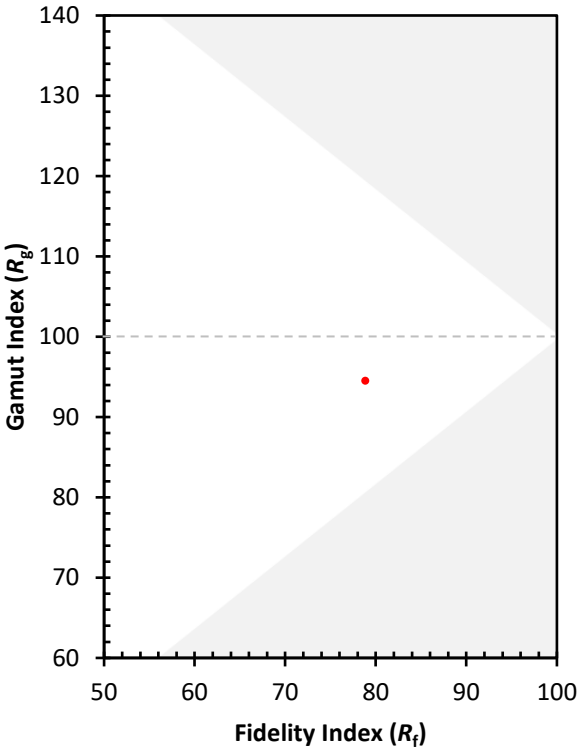


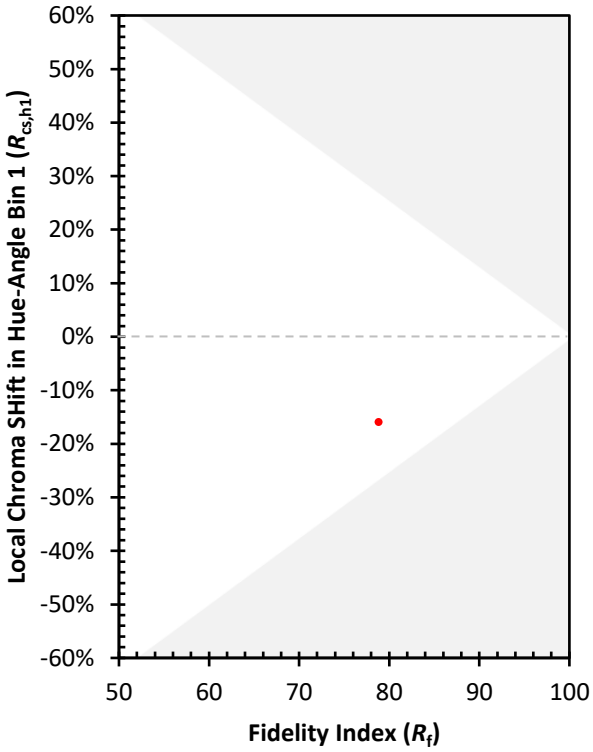


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Measure Comparisons





(END OF REPORT)