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: P1046231

Luminaire Tested: **FFX-CLB-60-722-U-FR-T4-UPLR-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:	P1046231
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7092.9 lumens
Efficiency:	N/A
Efficacy:	117.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

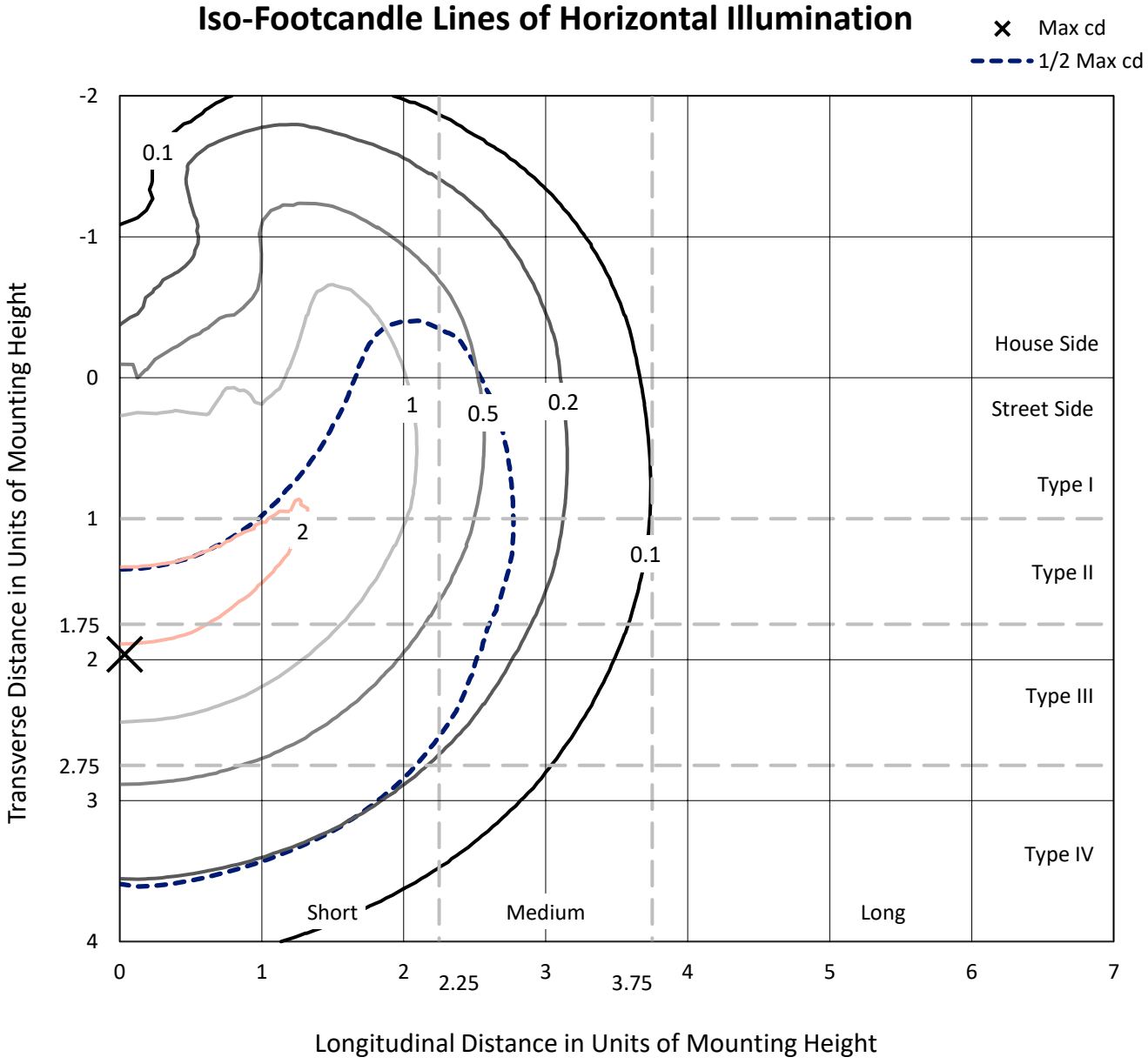


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Iso-Footcandle Lines of Horizontal Illumination



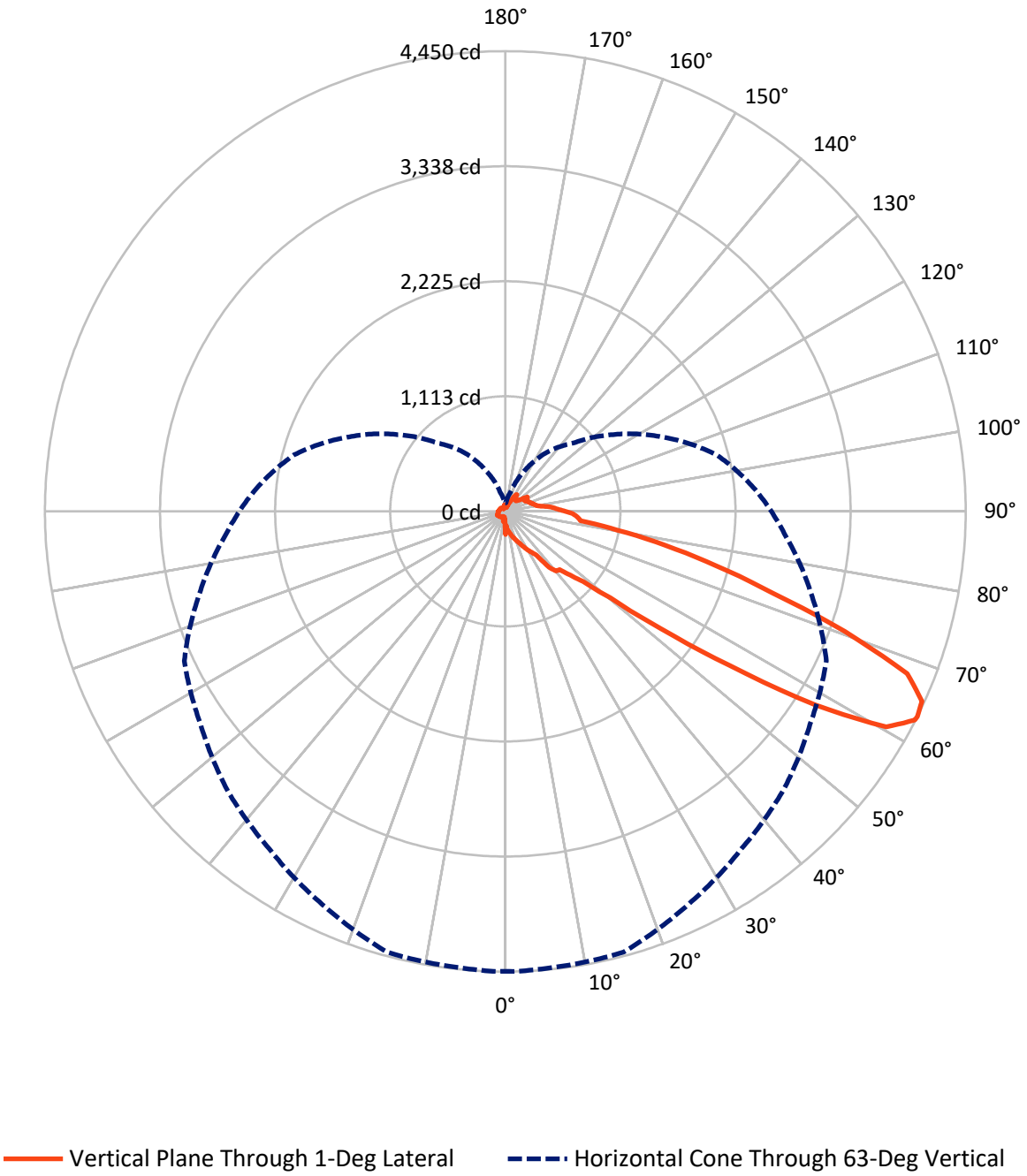
Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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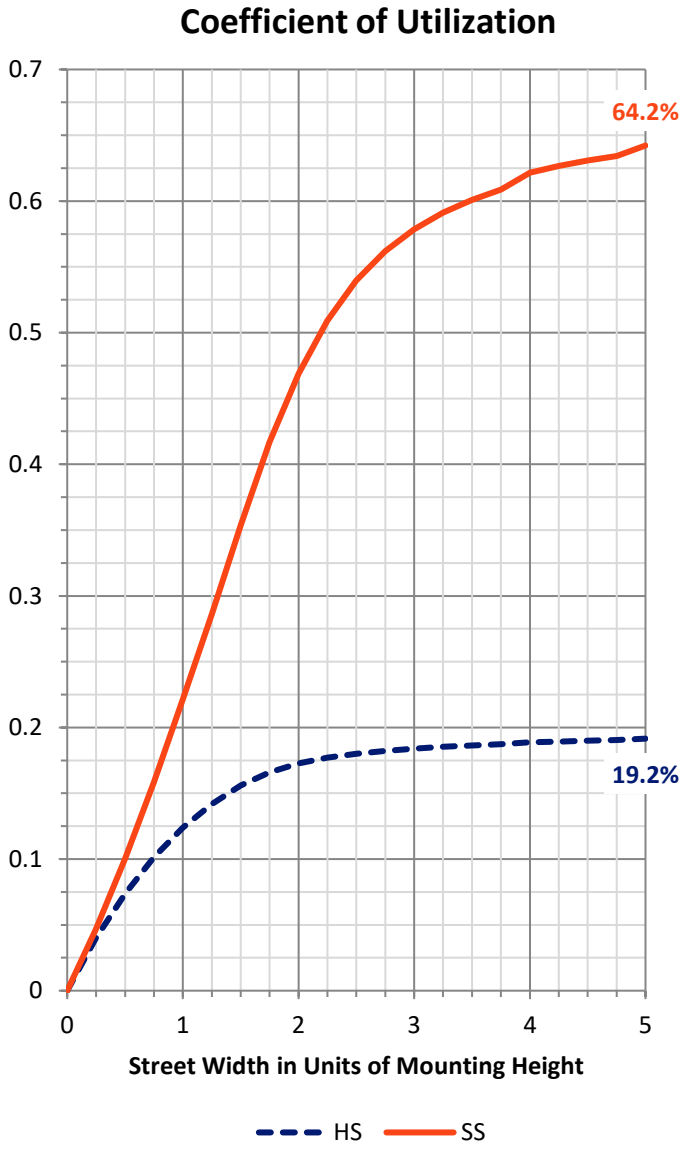
REPORT NUMBER: P1046231
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.3	281.3	1685.7
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	4757.7	649.5	5407.2
	% Fixture	67.1	9.2	76.2
Total	Lumens	6162.1	930.8	7092.9
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	0.2
10°-20°	46.7	0.7
20°-30°	102.9	1.5
30°-40°	210.6	3.0
40°-50°	425.3	6.0
50°-60°	1372.9	19.4
60°-70°	2261.9	31.9
70°-80°	1246.8	17.6
80°-90°	481.7	6.8
90°-100°	288.8	4.1
100°-110°	184.0	2.6
110°-120°	140.7	2.0
120°-130°	120.1	1.7
130°-140°	80.5	1.1
140°-150°	68.6	1.0
150°-160°	31.2	0.4
160°-170°	12.7	0.2
170°-180°	4.3	0.1
0°-90°	6162.1	86.9
0°-180°	7092.9	100.0



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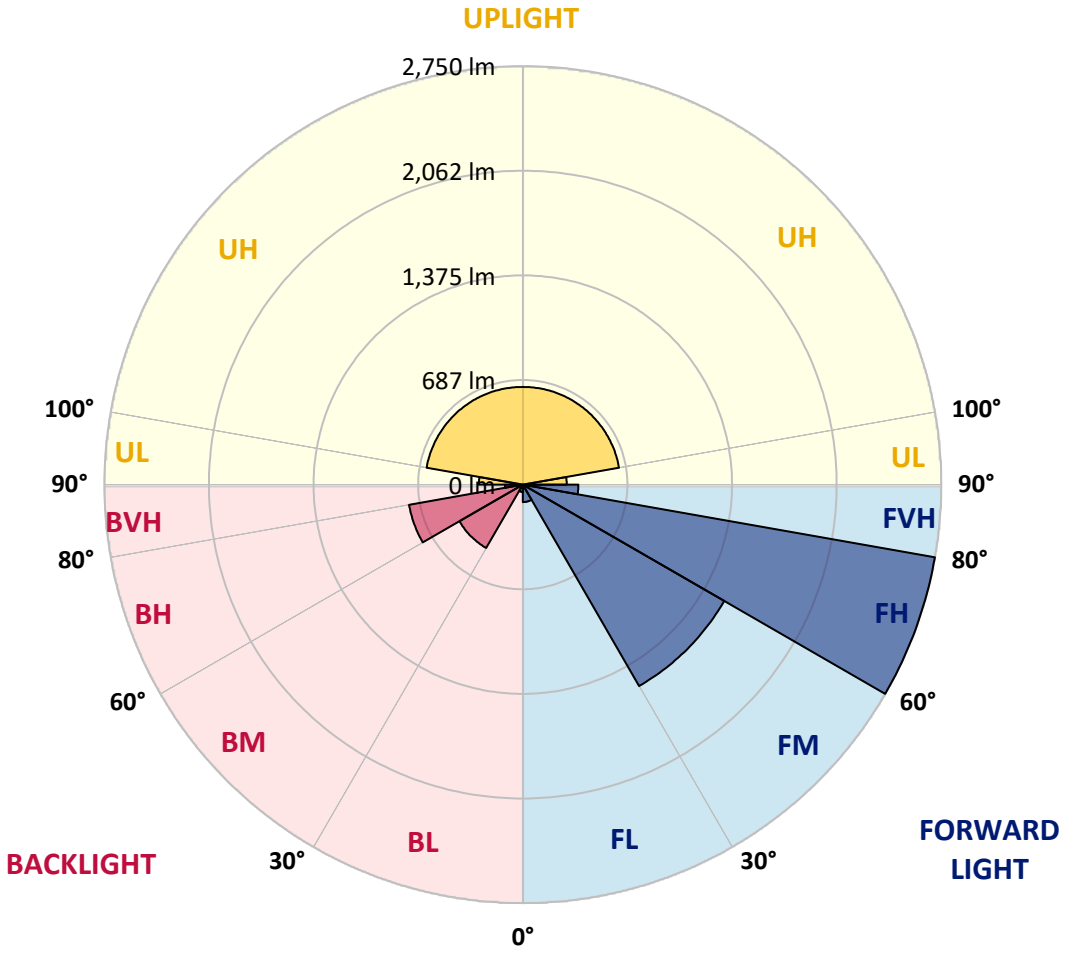
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	114.9	1.6			
FM	(30°-60°)	1528.1	21.5			
FH	(60°-80°)	2749.8	38.8			G2/5000
FVH	(80°-90°)	365.0	5.1			G3/500
BL	(0°-30°)	47.9	0.7	B0/110		
BM	(30°-60°)	480.8	6.8	B1/1000		
BH	(60°-80°)	759.0	10.7	B2/1000		G2/1000
BVH	(80°-90°)	116.7	1.6			G2/225
UL	(90°-100°)	288.8	4.1		U3/500	
UH	(100°-180°)	642.0	9.1		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	138.8	137.2	143.8	164.0	186.2	193.2	178.6	173.1	189.2	226.5	230.6
5°	159.9	162.5	161.0	163.5	165.5	181.1	195.3	180.6	146.3	119.6	121.6
7.5°	188.7	188.2	188.2	186.2	176.1	159.9	155.4	167.0	167.5	140.3	119.1
10°	201.3	200.8	200.8	198.8	196.8	198.3	193.2	172.1	154.9	143.8	136.7
12.5°	228.1	227.0	226.5	225.5	222.0	218.0	214.4	215.4	200.8	173.1	154.9
15°	250.3	249.2	250.3	251.3	248.7	241.7	231.6	217.5	204.3	192.7	176.6
17.5°	274.5	274.0	273.5	272.5	268.9	259.3	247.2	234.1	219.5	203.3	188.2
20°	297.7	296.7	297.2	297.7	296.2	284.6	272.5	256.3	240.7	225.0	207.4
22.5°	325.4	325.4	323.9	323.9	322.4	315.3	300.2	281.5	265.4	245.7	226.0
25°	361.3	359.7	359.7	358.2	352.2	344.6	334.0	312.8	293.7	275.0	248.7
27.5°	396.6	395.1	395.1	394.6	387.0	376.9	359.2	339.1	320.9	297.2	265.4
30°	436.9	435.9	436.4	430.9	424.8	410.7	388.5	365.3	341.6	313.8	283.1
32.5°	477.8	474.8	474.3	468.2	460.2	443.0	418.3	396.1	371.4	339.1	313.3
35°	525.7	519.2	526.3	524.7	523.7	505.6	477.3	451.6	422.3	393.0	365.3
37.5°	684.2	687.2	685.7	665.5	649.4	624.6	612.0	581.8	541.4	505.6	453.1
40°	758.9	757.8	755.3	733.1	718.5	692.8	672.6	649.9	626.2	570.1	505.1
42.5°	775.0	769.4	773.5	794.2	813.3	796.2	732.1	658.9	625.6	586.3	552.5
45°	893.1	878.9	885.0	890.5	871.9	847.1	819.4	772.0	716.0	659.5	597.4
47.5°	1019.2	1011.6	1011.1	1009.1	1011.1	987.4	950.6	906.7	827.5	766.4	697.3
50°	1326.5	1316.4	1319.4	1321.9	1311.3	1287.1	1247.3	1218.5	1123.6	1006.6	916.8
52.5°	1890.1	1884.0	1869.9	1870.9	1775.5	1770.5	1716.5	1690.8	1551.0	1417.3	1236.2
55°	2585.8	2625.2	2581.8	2573.2	2533.9	2498.6	2363.3	2251.3	2051.0	1858.8	1646.4
57.5°	3528.4	3534.9	3479.9	3481.4	3341.7	3252.9	3128.2	2956.7	2658.5	2381.0	2142.8
60°	4215.0	4231.7	4206.0	4152.5	3882.0	3723.1	3585.9	3450.6	3223.1	2810.9	2479.4
62.5°	4438.6	4443.6	4427.5	4399.2	4160.6	3957.7	3781.1	3584.9	3410.3	3038.9	2705.9
63°	4446.6	4450.2	4437.6	4413.3	4191.8	3981.4	3804.8	3595.0	3423.9	3059.1	2719.5
65°	4424.9	4426.5	4420.9	4388.6	4211.5	3989.0	3794.8	3587.9	3431.0	3067.2	2719.5
67.5°	4229.7	4191.3	4207.5	4153.0	4005.7	3784.2	3598.5	3387.6	3246.3	2894.6	2561.6
70°	3479.9	3482.4	3479.9	3450.1	3408.3	3233.2	3016.2	2826.5	2647.9	2371.9	2110.6
72.5°	2692.3	2702.9	2679.7	2696.8	2663.0	2518.2	2378.0	2185.7	2060.1	1826.0	1595.4
75°	2085.3	2107.0	2114.1	2065.1	2035.9	2005.1	1928.4	1790.2	1664.5	1483.4	1282.1
77.5°	1575.7	1579.8	1585.8	1552.5	1514.2	1526.3	1515.2	1449.6	1344.1	1210.9	1051.0
80°	1088.8	1100.4	1120.1	1100.9	1105.5	1098.4	1096.9	1044.4	968.2	884.5	798.7
82.5°	731.6	731.1	736.1	766.9	795.2	794.2	749.3	675.6	636.7	612.5	564.1
85°	700.3	700.3	707.4	685.2	671.1	656.9	653.9	628.7	598.9	544.4	477.3
87.5°	652.9	651.4	653.4	634.2	615.6	611.0	606.5	584.8	571.7	524.2	462.7
90°	558.5	562.6	562.6	561.1	549.5	544.9	526.8	508.6	500.5	457.6	409.2
92.5°	492.9	492.9	498.5	488.9	476.3	483.4	452.1	428.4	417.3	388.5	350.2
95°	445.5	444.0	451.1	437.4	428.4	415.2	402.1	377.4	369.3	344.6	305.8
97.5°	355.7	354.2	358.2	351.7	337.5	331.5	317.4	297.7	290.1	266.9	243.2
100°	306.3	305.8	307.3	303.7	295.7	288.1	276.0	260.4	253.3	234.1	212.9
102.5°	290.6	289.1	289.6	290.1	278.5	271.5	259.8	247.7	240.7	225.0	201.8
105°	276.5	275.5	274.5	274.5	261.4	254.3	246.7	238.7	232.6	215.4	193.2
107.5°	263.4	261.9	258.3	257.8	249.2	241.7	232.6	225.5	219.5	203.8	182.6

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	248.7	*248.2*	246.2	246.7	241.2	229.6	222.0	213.4	205.9	192.2	173.6
112.5°	241.2	*241.2*	239.7	242.2	221.0	209.4	201.3	193.7	188.7	175.6	161.5
115°	233.1	*229.1*	227.6	232.6	208.4	192.2	184.2	176.1	171.0	157.9	146.3
117.5°	215.9	*214.9*	215.4	219.5	212.4	194.8	181.6	171.5	166.5	156.9	146.3
120°	246.2	*245.2*	239.2	238.1	226.0	211.9	203.3	197.8	190.2	174.6	154.4
122.5°	257.3	*255.3*	245.7	248.7	232.6	225.5	222.0	220.0	212.9	192.2	161.5
125°	224.0	*221.0*	218.5	219.5	210.4	201.3	197.8	194.8	187.7	176.1	153.9
127.5°	179.6	*181.1*	179.1	173.6	172.1	158.4	153.9	150.4	143.8	134.2	130.7
130°	168.5	*167.5*	167.0	166.0	165.0	154.9	147.8	139.3	133.7	125.6	116.0
132.5°	149.9	*150.9*	152.4	161.0	169.0	160.4	142.3	129.2	125.6	127.1	123.1
135°	142.3	*142.8*	142.8	149.3	156.4	147.8	134.2	121.6	120.1	125.6	120.6
137.5°	145.8	*148.3*	147.8	146.3	142.3	136.2	133.2	126.1	122.1	118.6	110.0
140°	153.9	*156.9*	155.4	146.8	143.8	140.8	142.8	140.3	130.2	118.1	105.5
142.5°	152.9	*155.4*	154.4	153.4	158.9	151.9	142.3	132.7	124.6	118.1	110.0
145°	198.3	*197.3*	193.2	193.2	186.7	176.1	169.5	159.4	149.9	141.3	128.2
147.5°	183.2	*185.7*	186.7	182.1	179.1	172.1	171.0	165.5	162.5	154.9	141.3
150°	145.3	*147.3*	144.3	140.8	139.3	139.8	137.2	133.2	130.2	124.6	118.6
152.5°	100.4	*101.4*	100.4	97.4	96.4	94.9	95.4	92.3	90.3	86.8	81.2
155°	91.3	*91.8*	92.3	87.3	86.3	86.8	87.3	85.3	81.2	78.2	71.6
157.5°	71.6	*70.6*	70.6	69.6	70.1	68.6	68.6	68.1	66.6	64.6	62.6
160°	57.0	*57.5*	57.5	57.5	58.5	57.5	57.5	56.0	56.0	55.0	54.0
162.5°	48.4	*48.4*	48.4	48.4	47.9	47.9	48.9	48.4	48.4	48.9	50.0
165°	40.9	*41.4*	41.4	41.4	41.4	41.4	42.4	42.4	43.4	45.4	47.9
167.5°	38.3	*37.8*	37.8	38.3	38.3	39.4	39.4	41.4	44.9	48.4	48.4
170°	36.3	*36.3*	36.3	36.8	36.8	37.3	38.9	42.4	46.4	47.9	45.9
172.5°	37.8	*37.3*	37.3	37.8	37.8	39.4	41.4	44.4	45.9	45.9	43.9
175°	38.9	*38.3*	38.3	38.9	38.9	39.9	41.9	43.9	44.9	45.4	45.4
177.5°	37.8	*37.8*	37.8	37.8	37.8	38.3	38.3	39.9	40.9	41.9	42.9
180°	36.3	*36.3*	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5	224.5
2.5°	230.6	210.4	180.6	144.3	168.0	197.3	193.2	170.5	136.2	102.4	102.4
5°	127.7	135.2	142.8	125.1	112.0	111.0	108.0	96.9	95.4	78.7	74.2
7.5°	111.5	104.4	102.9	121.6	120.1	79.2	62.6	55.5	58.5	79.2	81.7
10°	133.7	130.7	121.1	100.9	84.3	76.7	76.2	77.2	70.6	57.0	53.5
12.5°	150.9	145.8	137.2	131.2	112.0	89.3	76.7	71.1	75.2	95.4	99.9
15°	167.5	160.4	145.8	129.2	110.0	93.3	80.2	68.6	68.6	65.6	64.1
17.5°	180.6	171.5	153.9	135.7	114.0	93.3	76.2	64.6	59.0	58.0	58.0
20°	197.3	188.7	169.5	147.3	120.1	94.4	75.7	64.6	58.0	55.5	55.0
22.5°	218.0	206.9	182.1	155.9	123.6	95.4	76.7	65.1	58.5	55.0	54.0
25°	237.1	224.5	195.3	168.0	131.7	97.9	77.7	66.6	59.5	55.5	55.0
27.5°	252.8	239.2	211.9	180.6	140.3	103.9	82.7	69.6	61.1	57.0	56.0
30°	270.4	257.8	229.1	193.7	148.3	111.5	89.8	75.2	65.6	60.0	59.5
32.5°	296.7	281.0	247.7	207.4	157.9	119.6	96.9	80.2	68.6	65.6	65.6
35°	344.1	328.0	284.1	229.6	167.0	127.7	103.9	85.8	73.2	66.1	65.6
37.5°	432.9	410.7	355.7	280.0	182.6	134.2	110.0	90.3	75.7	65.6	64.1
40°	473.8	435.9	377.4	306.8	205.4	141.8	115.0	93.8	76.2	67.1	66.1
42.5°	522.2	490.4	407.7	313.3	222.0	160.4	123.6	97.9	79.2	69.1	68.1
45°	568.6	537.9	468.2	370.3	259.3	188.2	138.8	106.0	84.3	72.2	70.1
47.5°	652.9	620.6	523.7	428.9	310.8	231.6	169.0	118.6	91.3	75.2	72.7
50°	871.9	826.0	711.9	568.1	397.6	294.2	216.5	144.8	100.9	76.7	73.7
52.5°	1154.4	1084.3	960.7	777.0	568.6	416.3	303.2	210.4	117.6	77.2	72.7
55°	1612.6	1526.3	1327.5	1059.1	796.2	621.1	459.1	323.4	173.1	80.7	72.2
57.5°	2047.0	1982.9	1809.3	1449.1	1056.0	789.1	604.0	455.1	235.6	88.8	75.7
60°	2366.4	2244.3	2041.4	1672.1	1275.5	915.8	672.1	473.3	242.2	90.3	78.2
62.5°	2557.1	2406.2	2105.5	1704.4	1306.8	942.0	699.3	435.4	195.8	88.3	81.7
63°	*2571.2*	*2424.9*	*2113.6*	*1693.3*	*1296.7*	*934.9*	*695.3*	*426.3*	*190.2*	*87.8*	*82.7*
65°	2553.6	2426.4	2085.3	1635.3	1210.9	872.4	647.3	383.0	154.4	86.3	83.8
67.5°	2378.0	2274.5	1937.5	1478.3	1078.2	753.3	535.8	292.1	120.6	82.2	81.2
70°	1990.5	1871.9	1566.1	1222.0	854.7	608.5	427.4	226.5	99.4	78.2	77.2
72.5°	1481.4	1431.9	1189.7	929.9	657.4	469.2	320.9	172.1	88.3	75.2	74.2
75°	1197.8	1123.6	943.5	734.6	500.0	348.6	238.1	129.2	80.7	72.7	71.6
77.5°	990.4	941.0	785.1	554.5	356.7	251.3	175.1	102.4	77.2	71.1	70.6
80°	766.9	736.1	612.5	410.2	255.3	187.2	138.8	93.8	75.7	70.6	70.1
82.5°	540.9	531.3	446.0	306.8	217.0	167.5	129.2	92.3	76.2	71.6	70.6
85°	448.0	427.4	375.4	291.6	205.9	160.4	124.6	90.8	76.2	71.1	70.6
87.5°	436.4	419.3	363.3	273.0	188.7	148.3	117.1	87.3	73.7	69.1	68.6
90°	394.6	377.4	325.4	243.7	177.6	139.3	109.5	82.7	70.6	67.1	66.1
92.5°	336.5	320.9	282.6	221.5	170.0	133.7	106.5	81.2	70.1	66.1	65.6
95°	292.1	279.0	247.7	203.8	156.9	124.6	100.9	78.2	68.1	64.6	64.1
97.5°	232.6	224.5	200.3	166.0	132.7	109.0	90.3	73.7	65.6	62.6	62.1
100°	204.8	197.8	178.6	150.4	123.1	102.9	87.3	72.2	63.6	61.1	60.5
102.5°	192.2	186.7	169.5	141.3	115.5	97.9	83.3	69.6	62.1	59.5	59.0
105°	182.6	177.6	162.0	134.7	109.0	91.3	78.2	66.6	59.5	57.5	57.0
107.5°	171.0	167.0	151.9	125.1	102.4	85.8	74.2	64.1	58.0	56.0	56.0

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

Scaled Data Report

REPORT NUMBER: P1046231
CATALOG NUMBER: FFX-CLB-60-722-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	161.5	158.4	142.8	119.6	97.9	82.2	71.6	63.1	57.5	55.5	55.5
112.5°	151.4	147.8	133.2	112.5	93.8	79.7	69.6	61.6	56.5	54.5	54.5
115°	140.3	136.7	122.6	104.4	88.8	75.7	66.6	59.0	54.5	53.0	53.0
117.5°	142.3	133.2	116.0	99.9	84.8	72.7	64.6	58.0	53.0	52.0	51.5
120°	144.3	132.7	120.1	104.9	87.3	71.1	63.1	56.5	52.5	51.0	51.0
122.5°	140.8	142.3	131.2	108.0	83.3	69.6	62.6	57.0	53.0	51.5	52.0
125°	137.7	141.3	128.2	101.9	80.2	69.1	62.6	58.5	55.0	53.5	53.5
127.5°	126.6	127.1	109.0	91.3	78.2	67.6	62.1	59.0	56.0	54.0	53.0
130°	111.5	110.5	101.9	88.8	73.7	65.1	60.0	58.5	55.5	52.0	51.5
132.5°	119.6	116.6	102.4	84.3	69.6	62.6	59.5	57.5	52.5	48.4	47.9
135°	113.5	110.5	95.9	78.7	67.6	63.6	62.1	57.0	49.4	46.4	45.9
137.5°	103.4	98.4	86.3	75.2	68.6	66.1	62.6	56.0	48.4	44.9	44.4
140°	99.4	94.4	84.8	77.2	69.6	61.6	55.5	49.4	44.4	41.4	40.9
142.5°	104.4	100.4	90.8	77.2	65.1	56.5	51.0	46.9	42.4	37.8	37.3
145°	121.6	114.0	100.9	86.8	74.2	64.1	55.5	46.9	38.9	33.8	33.3
147.5°	134.7	128.7	114.5	98.4	80.7	64.6	52.0	41.4	34.8	31.8	31.3
150°	112.0	108.5	97.9	84.8	71.6	57.0	44.9	36.8	32.8	31.8	31.8
152.5°	78.2	75.7	72.2	63.6	53.5	44.9	38.3	34.3	32.8	32.3	32.3
155°	69.1	67.6	63.1	55.5	48.4	41.9	36.8	33.8	33.3	32.8	32.8
157.5°	59.5	59.0	56.0	50.0	44.4	39.4	35.8	34.3	33.3	32.8	32.8
160°	53.5	52.0	48.9	44.9	41.4	38.3	36.3	35.3	34.3	33.8	33.8
162.5°	50.0	48.9	45.4	42.4	40.4	39.9	40.4	39.9	37.3	35.8	35.3
165°	47.4	46.9	43.4	41.4	40.4	42.9	45.9	44.9	40.4	37.8	37.8
167.5°	47.4	46.4	42.9	41.4	43.9	47.4	50.0	49.4	45.4	42.9	41.4
170°	44.9	43.9	42.9	43.4	46.9	48.4	48.9	50.0	50.5	53.0	54.0
172.5°	43.4	43.4	44.4	46.4	49.4	50.0	48.4	48.9	53.5	59.0	59.5
175°	45.4	45.4	47.4	51.0	52.5	53.5	51.5	52.0	57.0	62.6	63.1
177.5°	43.4	43.9	44.9	45.4	44.9	43.4	42.9	44.9	43.4	42.9	44.4
180°	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3

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

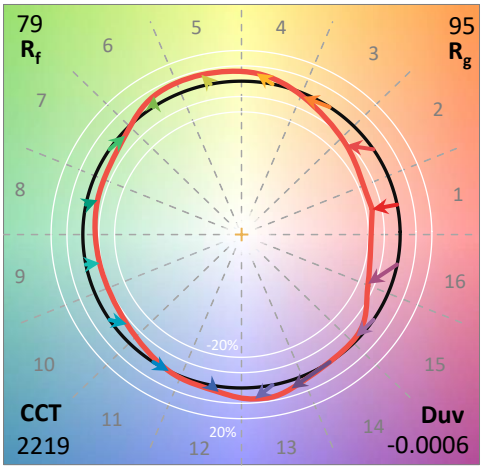
Test Information

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

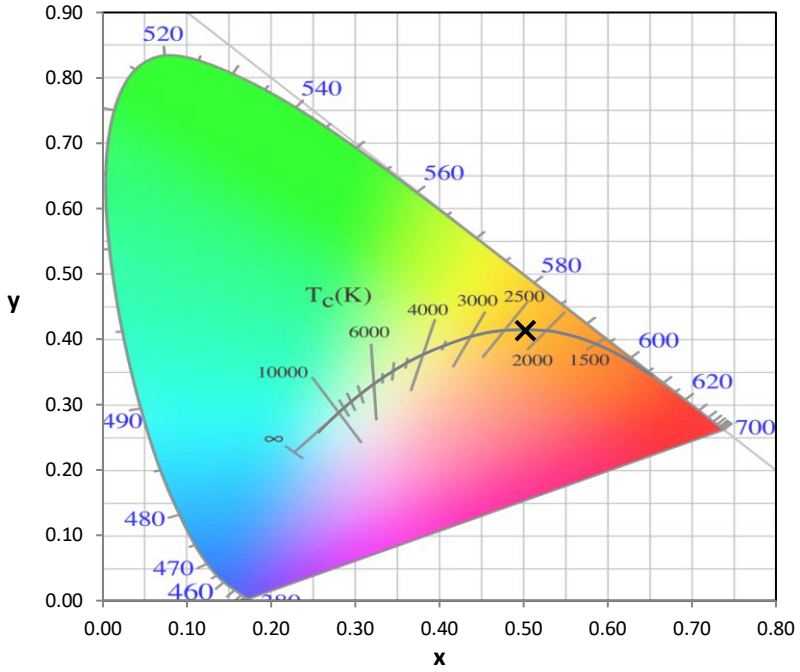
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

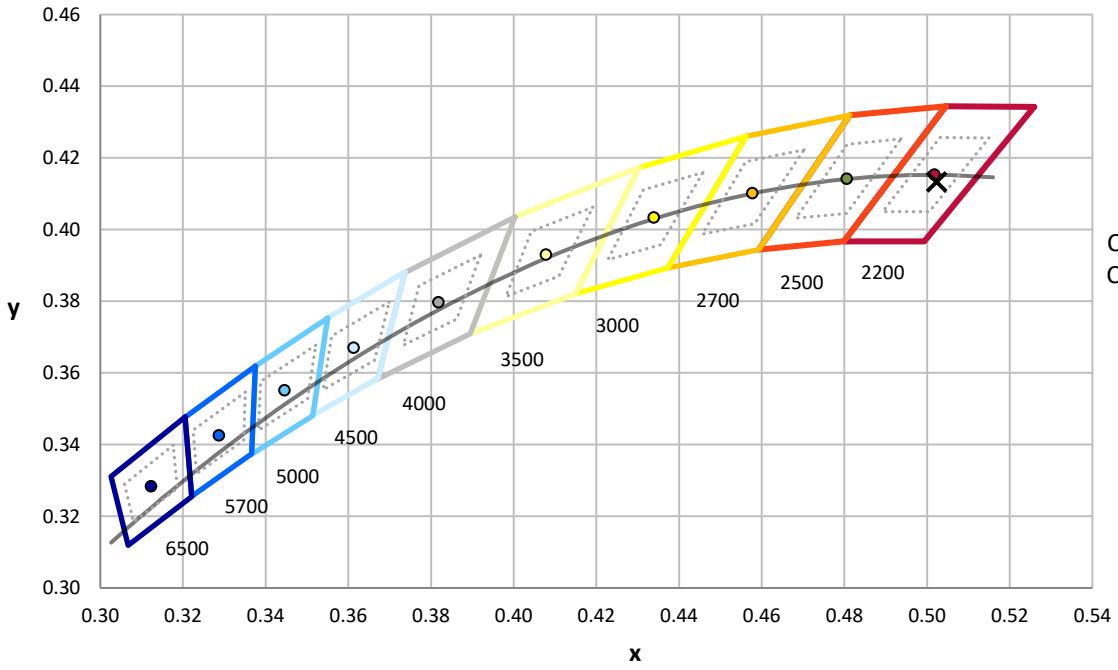
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

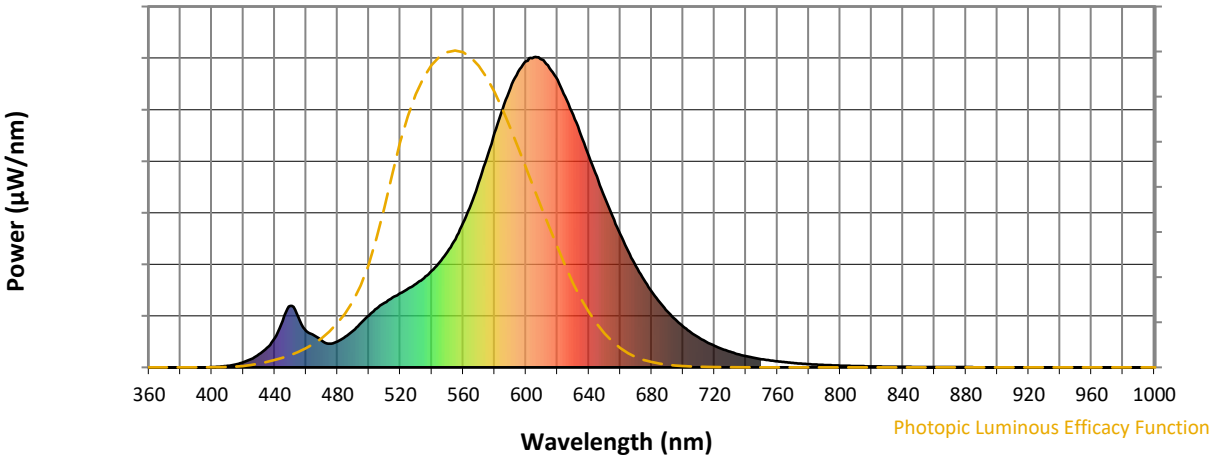


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

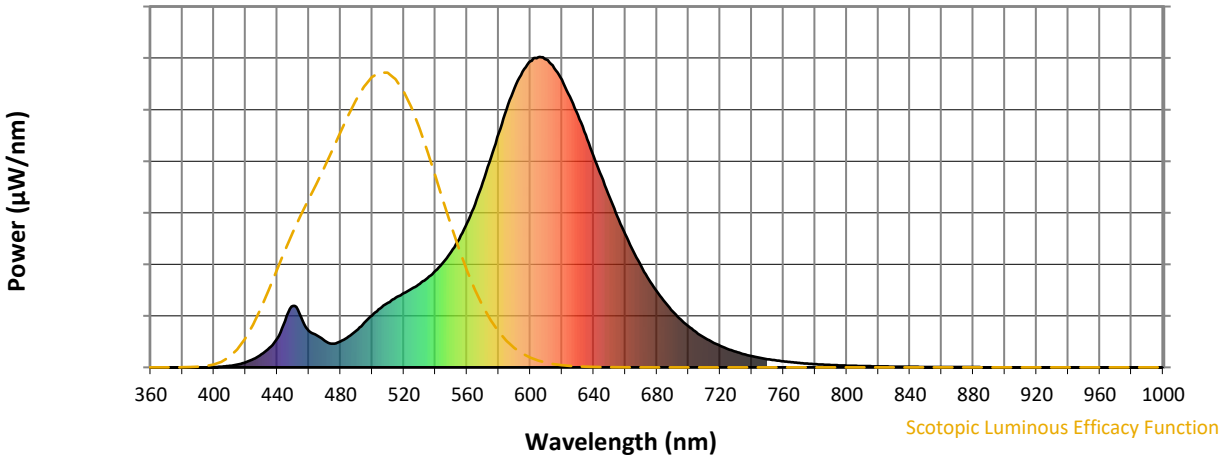


Photopic Lumens: NR

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

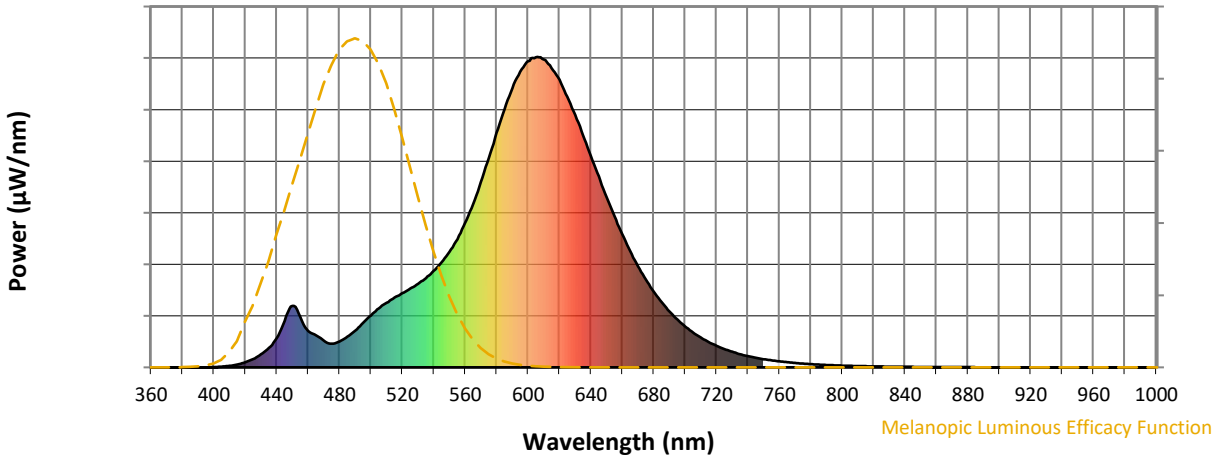


Scotopic Lumens: NR **S/P: 0.94**

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			

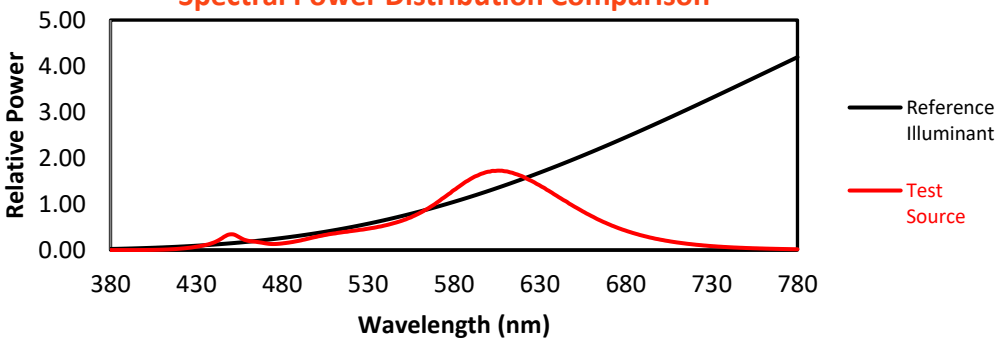
REPORT NUMBER: SP1-2501-332-2

TM-30-18

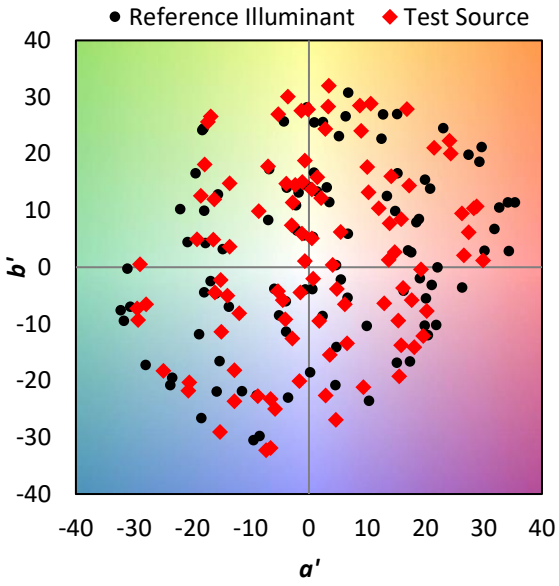
Summary

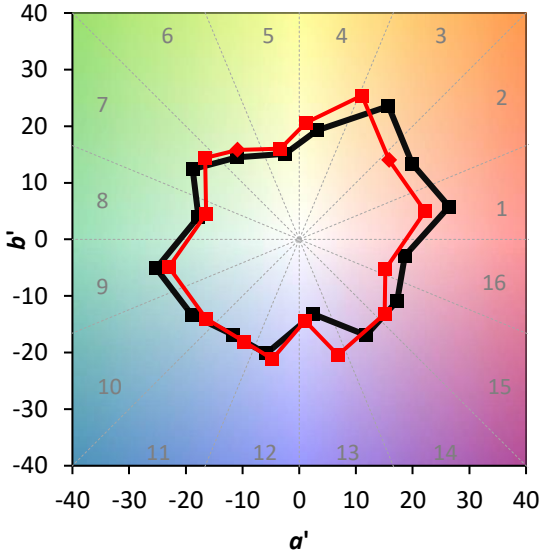
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

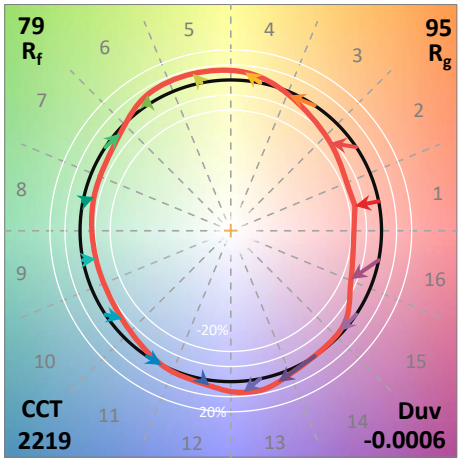
Spectral Power Distribution Comparison

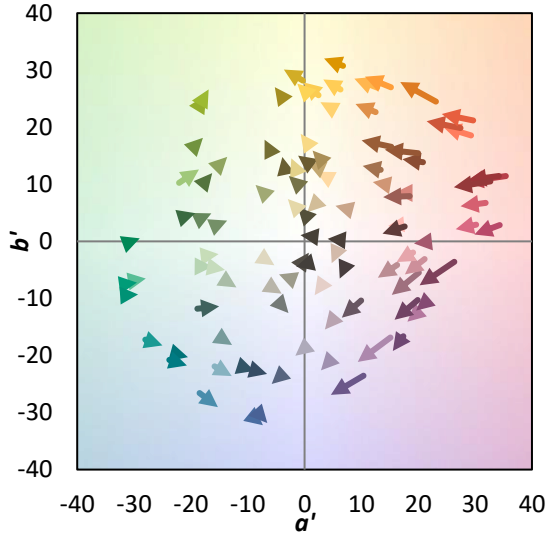


Color Vector Graphics







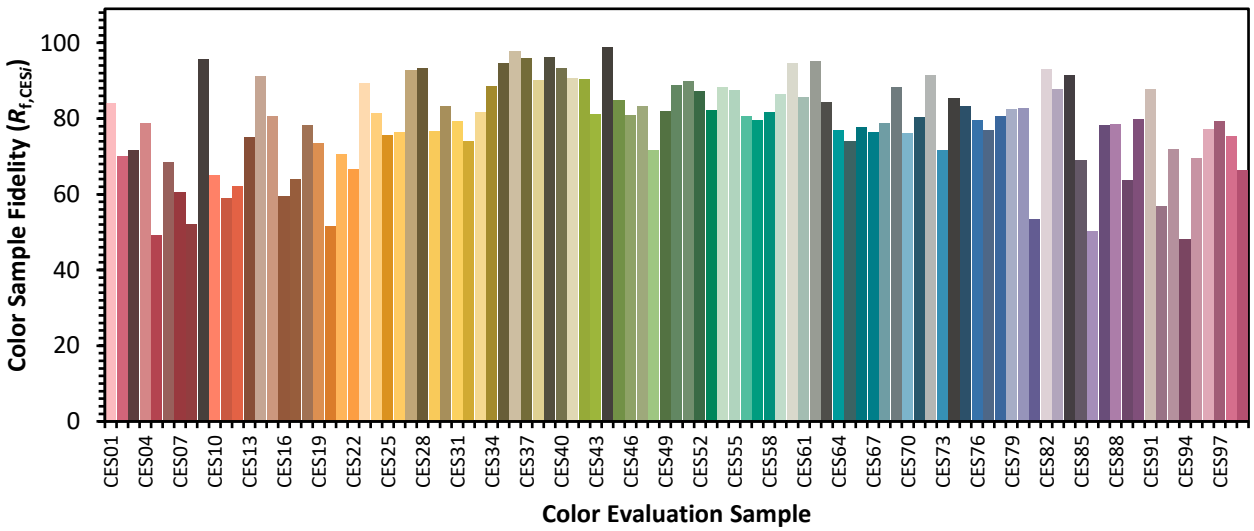


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

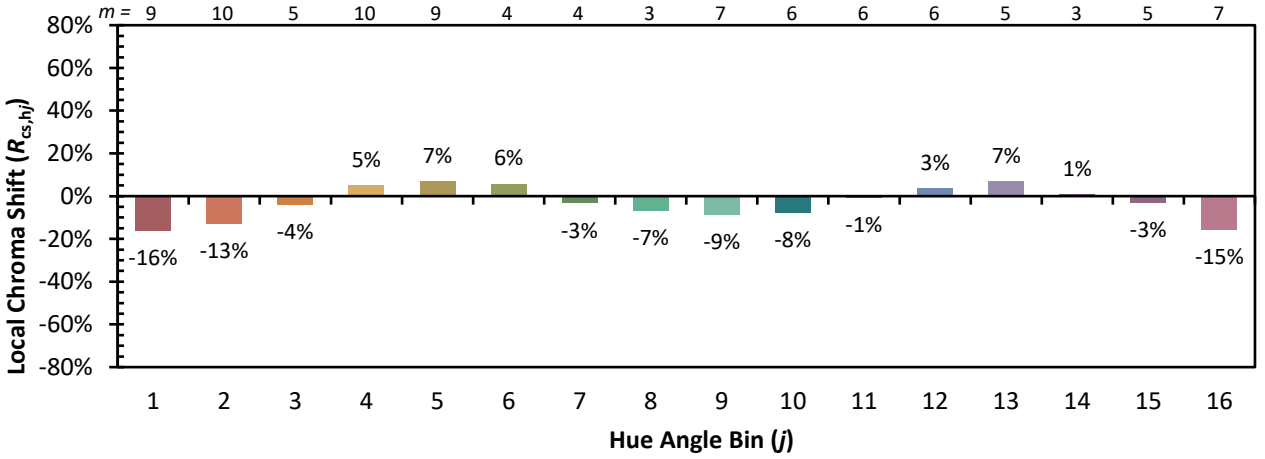
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

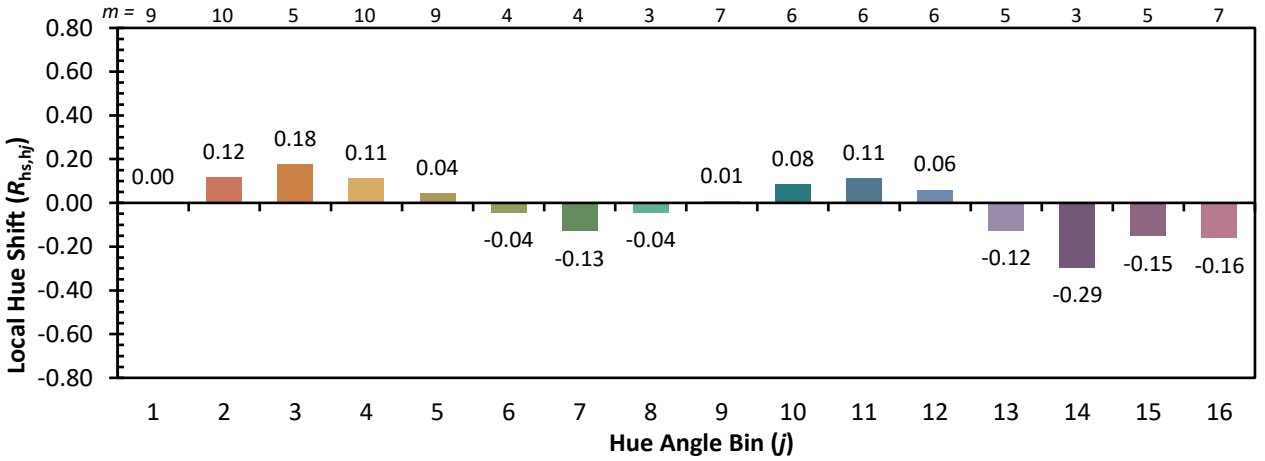


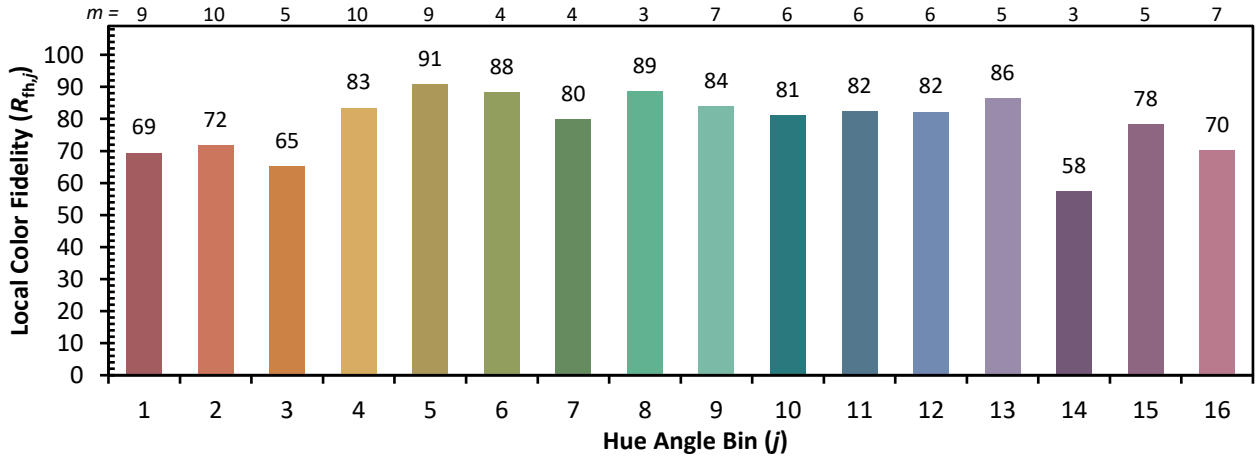
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Color Rendition by Hue-Angle Bin



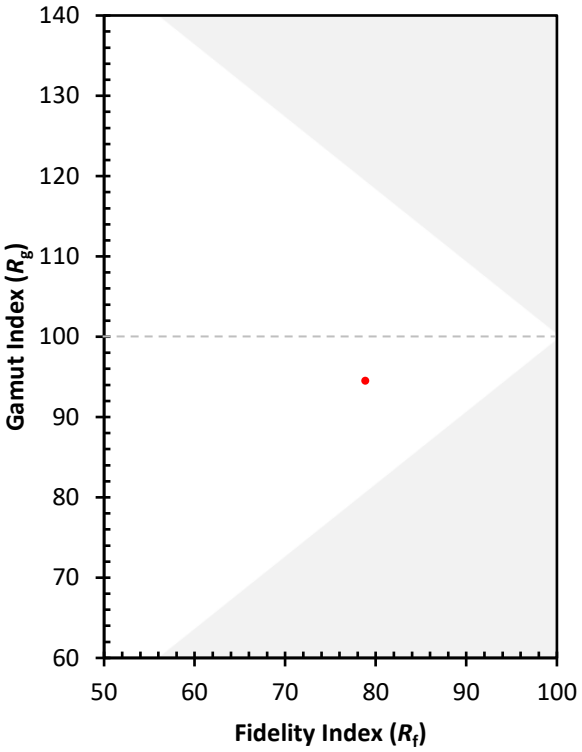


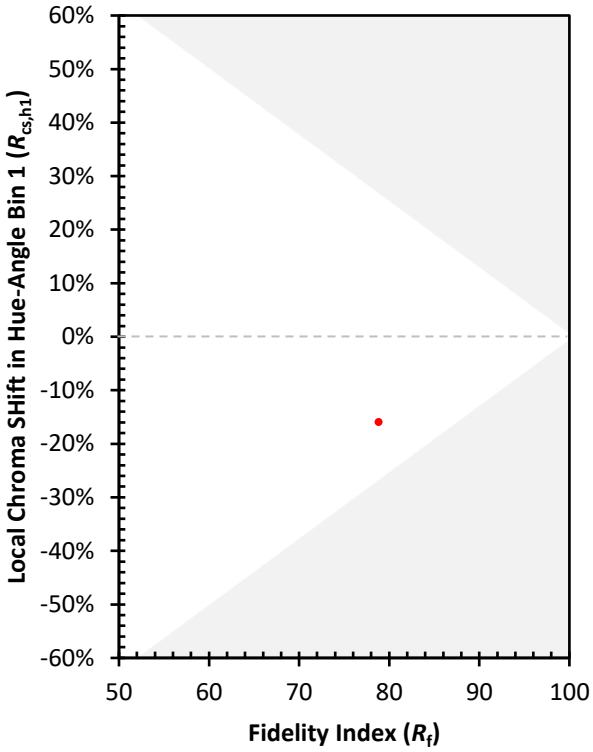


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Measure Comparisons





(END OF REPORT)