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: P1045754

Luminaire Tested: **FFX-CLB-60-730-U-FR-T5-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:	P1045754
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-730-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6151.8 lumens
Efficiency:	N/A
Efficacy:	101.5 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

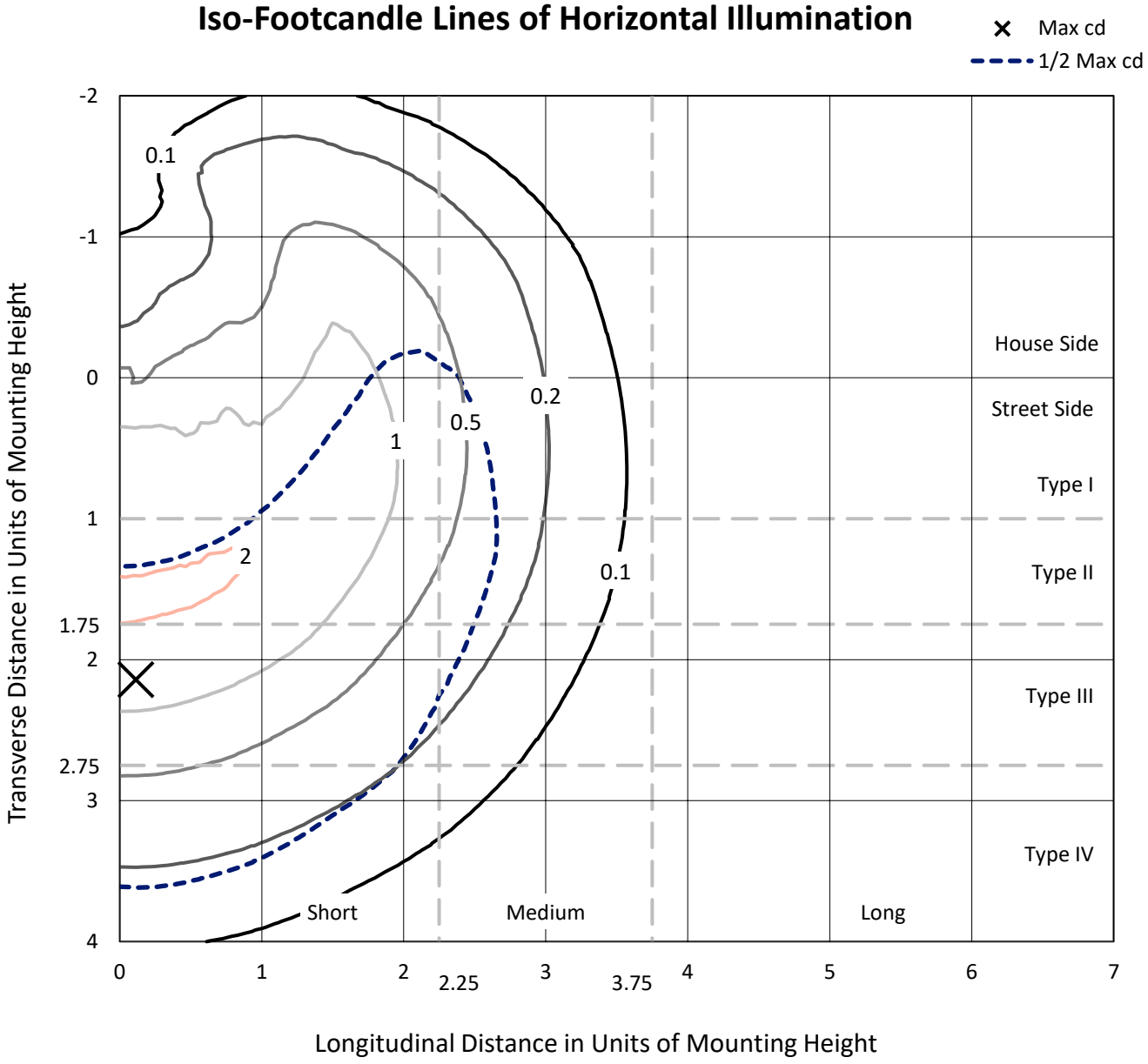


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Iso-Footcandle Lines of Horizontal Illumination



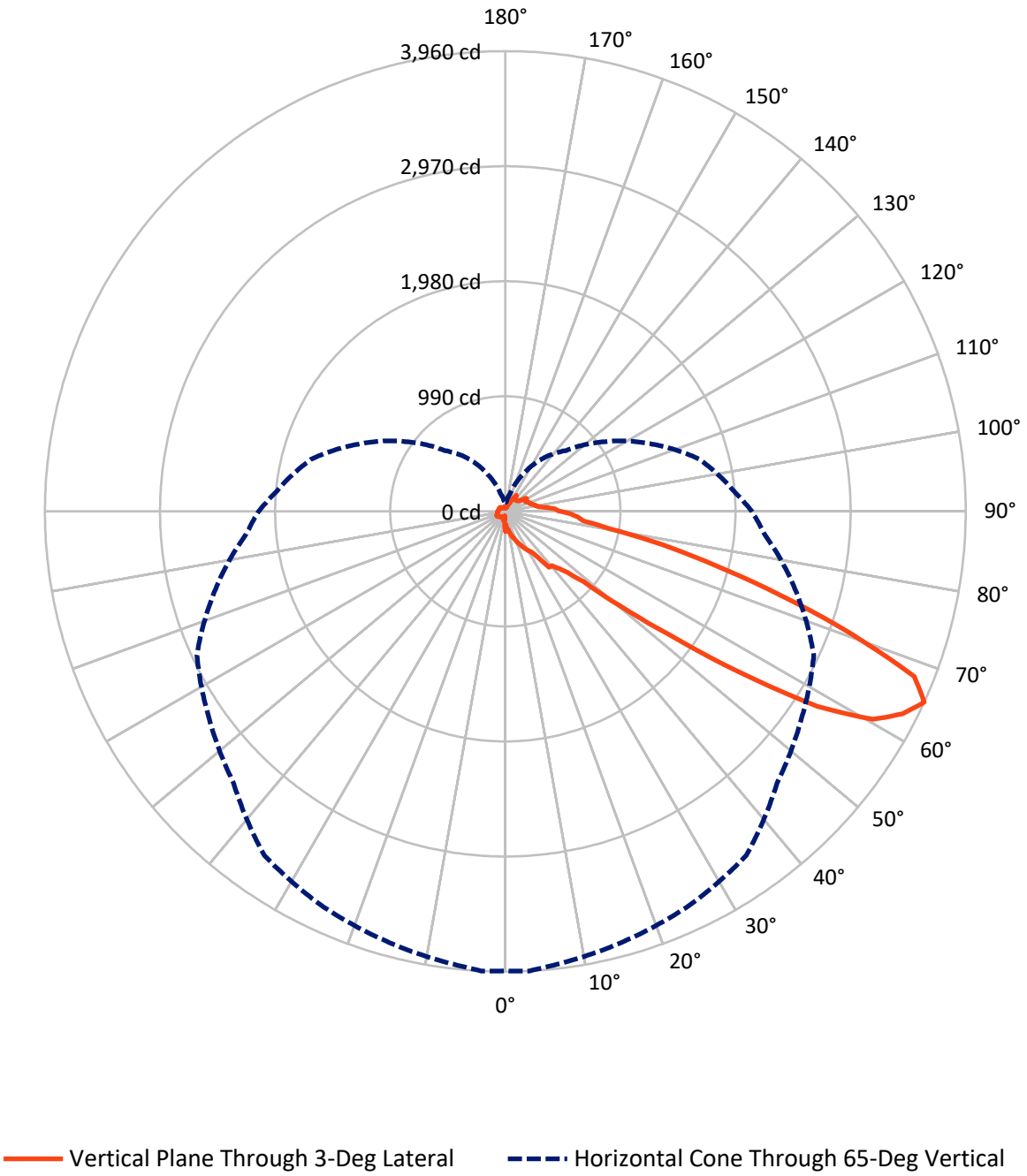
Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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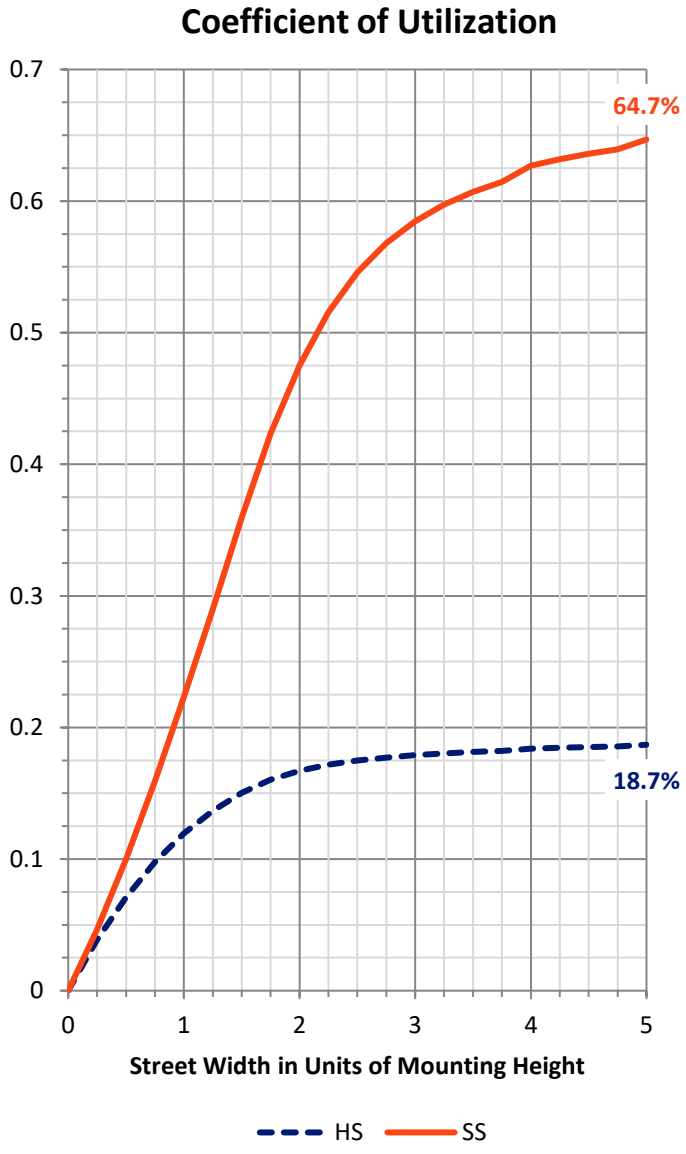
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.2	258.8	1449.0
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	4150.2	552.6	4702.8
	% Fixture	67.5	9.0	76.4
Total	Lumens	5340.4	811.4	6151.8
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.2
10°-20°	41.9	0.7
20°-30°	93.5	1.5
30°-40°	189.0	3.1
40°-50°	379.7	6.2
50°-60°	1218.4	19.8
60°-70°	1943.4	31.6
70°-80°	1057.2	17.2
80°-90°	406.2	6.6
90°-100°	242.1	3.9
100°-110°	160.7	2.6
110°-120°	128.1	2.1
120°-130°	106.7	1.7
130°-140°	73.5	1.2
140°-150°	59.4	1.0
150°-160°	26.5	0.4
160°-170°	10.8	0.2
170°-180°	3.6	0.1
0°-90°	5340.4	86.8
0°-180°	6151.8	100.0



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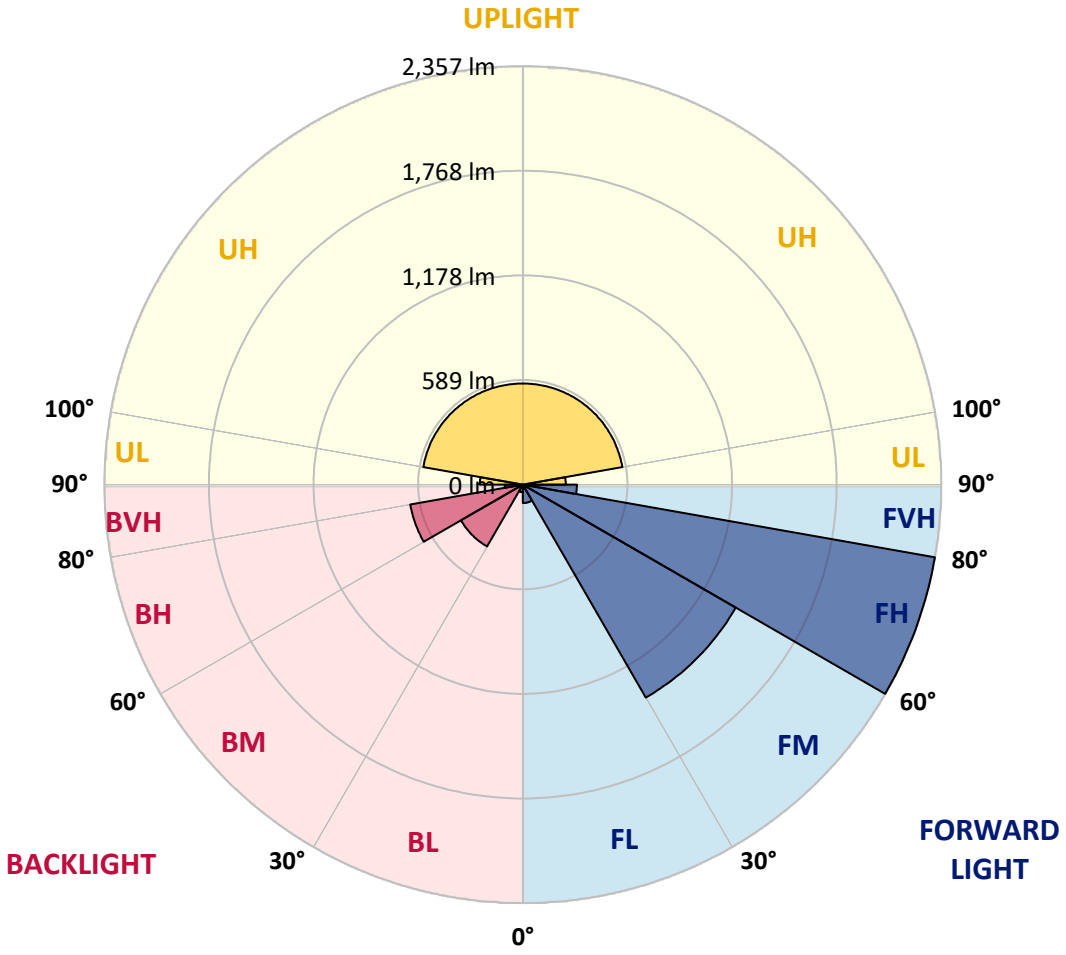
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	103.7	1.7			
FM	(30°-60°)	1385.0	22.5			
FH	(60°-80°)	2357.0	38.3			G2/5000
FVH	(80°-90°)	304.5	5.0			G3/500
BL	(0°-30°)	42.7	0.7	B0/110		
BM	(30°-60°)	402.2	6.5	B1/1000		
BH	(60°-80°)	643.6	10.5	B2/1000		G2/1000
BVH	(80°-90°)	101.7	1.7			G2/225
UL	(90°-100°)	242.1	3.9		U3/500	
UH	(100°-180°)	569.2	9.3		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9
2.5°	112.4	111.7	113.8	123.7	149.1	157.6	150.5	138.5	136.4	149.1	159.0
5°	153.4	152.0	150.5	140.7	130.8	135.7	149.8	153.4	139.2	113.1	96.1
7.5°	155.5	154.1	154.8	154.8	152.7	143.5	132.9	137.8	149.8	133.6	105.3
10°	173.2	172.5	172.5	171.8	169.6	166.8	166.1	155.5	137.1	123.0	117.3
12.5°	202.1	202.1	201.4	200.7	198.6	193.7	187.3	178.8	173.2	156.2	138.5
15°	225.5	223.4	224.8	222.6	219.1	216.3	208.5	199.3	182.4	171.0	155.5
17.5°	248.1	248.1	248.8	245.3	241.0	238.9	230.4	218.4	202.1	182.4	167.5
20°	276.4	274.2	274.2	270.7	265.8	258.7	250.9	240.3	226.9	200.0	180.2
22.5°	303.2	303.9	303.9	298.3	290.5	284.1	273.5	260.8	248.1	220.5	195.1
25°	333.6	332.9	332.2	331.5	323.7	312.4	299.0	285.5	276.4	249.5	214.2
27.5°	361.9	360.5	359.8	363.3	356.2	344.9	325.1	308.9	299.0	271.4	231.8
30°	393.0	392.3	392.3	393.7	390.9	373.2	352.0	332.9	318.8	291.2	248.8
32.5°	420.5	419.1	419.8	425.5	424.8	402.2	383.1	359.8	342.1	320.2	273.5
35°	488.4	485.6	489.8	498.3	504.7	480.6	454.5	418.4	391.6	369.0	320.9
37.5°	610.7	611.4	612.8	601.5	577.5	559.8	547.1	518.1	484.9	446.7	390.2
40°	615.6	614.9	618.5	635.4	645.3	614.9	585.2	551.3	542.8	510.3	438.2
42.5°	672.9	668.6	672.2	688.4	701.9	683.5	657.3	600.1	569.0	540.0	480.6
45°	754.9	749.9	756.3	759.1	756.3	736.5	740.7	694.1	665.1	606.4	523.7
47.5°	880.0	902.6	906.1	906.8	935.1	908.2	891.3	846.8	781.0	711.0	617.0
50°	1235.5	1272.2	1259.5	1247.5	1249.6	1229.1	1205.8	1144.3	1056.0	937.9	803.6
52.5°	1763.5	1749.3	1751.5	1759.2	1779.0	1687.8	1648.3	1555.7	1412.9	1271.5	1077.9
55°	2409.5	2433.5	2432.1	2457.6	2454.0	2355.8	2230.7	2075.2	1867.4	1660.3	1431.3
57.5°	3208.2	3165.8	3137.5	3090.9	3050.6	2917.0	2834.3	2666.1	2391.1	2080.1	1786.1
60°	3656.3	3633.0	3625.9	3561.6	3506.5	3342.5	3172.1	2989.8	2774.9	2407.4	2073.8
62.5°	3824.5	3835.8	3825.9	3784.2	3747.5	3604.0	3317.7	3119.1	2926.9	2573.5	2222.2
65°	3953.9	3960.2	3937.6	3842.9	3742.5	3613.9	3305.7	3109.9	2927.6	2579.8	2236.3
67.5°	3795.5	3794.1	3776.5	3640.0	3470.4	3343.2	3063.3	2852.7	2697.9	2407.4	2075.9
70°	3151.6	3155.9	3159.4	3059.0	2873.2	2778.4	2495.0	2314.1	2180.5	1929.6	1691.4
72.5°	2467.5	2480.2	2485.8	2407.4	2269.5	2172.0	1982.6	1846.9	1722.5	1523.2	1335.9
75°	1856.1	1868.8	1865.3	1816.5	1719.7	1692.8	1600.9	1485.0	1381.1	1226.3	1068.0
77.5°	1392.4	1381.8	1379.0	1331.6	1236.2	1243.3	1217.1	1150.7	1070.1	978.9	868.7
80°	922.4	913.2	894.8	911.1	903.3	880.7	837.6	803.6	771.8	717.4	657.3
82.5°	678.5	675.7	672.2	661.6	654.5	648.8	629.8	575.3	537.2	506.1	470.0
85°	634.7	626.2	627.6	609.3	587.4	567.6	552.7	529.4	499.7	450.9	398.6
87.5°	554.1	554.1	549.9	537.2	515.3	510.3	499.7	483.5	465.8	428.3	381.7
90°	460.8	458.0	458.0	457.3	452.4	448.8	428.3	413.5	405.7	368.2	335.7
92.5°	425.5	424.1	421.3	417.7	403.6	400.8	380.3	361.2	344.2	320.9	295.4
95°	345.6	348.5	342.1	341.4	334.3	330.1	313.8	304.6	293.3	274.2	250.9
97.5°	291.9	287.7	288.4	282.0	274.9	272.1	262.2	248.8	238.2	223.4	206.4
100°	267.9	267.2	265.8	260.8	250.9	244.6	234.0	221.2	210.6	197.2	183.1
102.5°	252.3	251.6	250.9	246.7	235.4	231.8	221.9	212.0	202.9	190.8	172.5
105°	236.8	236.1	234.7	229.7	222.6	219.1	209.9	204.3	195.1	184.5	166.8
107.5°	222.6	222.6	221.9	216.3	212.0	209.2	200.0	195.1	185.2	176.0	159.0
110°	215.6	215.6	214.9	210.6	202.1	197.9	189.4	183.1	173.9	164.7	151.3

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	207.8	*208.5*	208.5	209.9	189.4	181.6	174.6	169.6	161.9	153.4	142.1
115°	190.1	*190.8*	190.1	197.2	190.1	179.5	175.3	166.8	156.9	143.5	131.5
117.5°	191.5	*191.5*	193.0	196.5	193.0	183.1	173.9	163.3	154.8	141.4	130.8
120°	217.0	*215.6*	215.6	208.5	207.1	197.9	191.5	180.2	166.1	152.7	137.8
122.5°	208.5	*207.8*	208.5	197.2	196.5	194.4	192.3	190.1	171.8	164.0	144.9
125°	166.8	*165.4*	164.7	160.4	167.5	162.6	161.2	166.1	154.1	147.0	136.4
127.5°	149.1	*147.7*	147.0	145.6	149.8	141.4	139.9	141.4	132.2	123.7	117.3
130°	142.8	*140.7*	140.7	145.6	152.0	144.9	137.1	131.5	127.9	122.3	111.7
132.5°	135.0	*135.0*	135.7	142.1	153.4	145.6	131.5	120.2	118.7	119.4	114.5
135°	132.9	*132.2*	132.9	130.8	130.1	125.8	119.4	110.3	108.1	113.8	108.1
137.5°	136.4	*135.7*	135.0	129.3	123.0	119.4	118.0	112.4	106.7	103.2	97.5
140°	135.0	*135.0*	134.3	132.9	128.6	121.6	120.2	114.5	108.8	102.5	95.4
142.5°	137.1	*139.2*	140.7	142.1	140.7	132.9	125.1	115.9	109.6	106.0	98.2
145°	168.9	*168.9*	168.9	166.1	161.2	154.8	149.1	142.8	137.8	126.5	115.9
147.5°	139.9	*139.9*	139.2	139.9	139.9	137.1	136.4	134.3	135.0	129.3	118.7
150°	96.8	*99.0*	99.0	102.5	103.9	102.5	102.5	103.9	101.8	101.1	95.4
152.5°	78.5	*77.7*	76.3	77.7	77.7	78.5	78.5	77.0	76.3	76.3	72.8
155°	69.3	*69.3*	69.3	68.6	67.1	67.9	68.6	68.6	66.4	65.0	62.2
157.5°	55.1	*54.4*	54.4	55.8	55.8	55.8	55.8	55.8	55.8	56.5	57.3
160°	46.6	*45.2*	45.9	45.9	46.6	47.4	46.6	47.4	47.4	48.1	47.4
162.5°	38.2	*37.5*	37.5	38.2	38.9	39.6	40.3	40.3	41.0	42.4	43.1
165°	33.9	*33.9*	33.9	34.6	34.6	35.3	36.0	36.8	38.2	40.3	41.0
167.5°	31.8	*31.8*	31.8	31.8	32.5	33.2	34.6	36.8	38.2	40.3	40.3
170°	31.1	*31.1*	31.8	31.8	31.8	32.5	35.3	37.5	38.2	38.9	38.9
172.5°	32.5	*32.5*	32.5	32.5	32.5	33.9	37.5	38.2	38.2	38.2	38.9
175°	33.9	*33.9*	33.2	33.2	33.9	34.6	35.3	38.9	40.3	41.0	42.4
177.5°	31.8	*31.8*	31.8	32.5	32.5	33.2	33.9	35.3	35.3	36.8	38.9
180°	35.3	*35.3*	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9	173.9
2.5°	166.1	178.1	163.3	147.7	136.4	142.8	149.8	144.2	137.8	138.5	126.5
5°	99.7	102.5	103.9	90.5	74.9	83.4	101.8	95.4	73.5	41.0	35.3
7.5°	96.1	91.9	90.5	100.4	91.2	60.8	47.4	43.1	57.3	68.6	72.1
10°	113.8	108.8	98.2	80.6	71.4	67.1	65.7	62.9	54.4	42.4	40.3
12.5°	130.8	125.1	115.2	106.7	94.7	79.2	69.3	66.4	71.4	79.9	79.9
15°	147.7	139.9	127.2	115.9	106.7	89.8	77.0	65.7	64.3	66.4	66.4
17.5°	159.7	151.3	136.4	120.9	104.6	88.4	73.5	62.2	57.3	55.8	55.8
20°	171.8	164.0	146.3	129.3	109.6	90.5	73.5	61.5	55.8	53.7	53.0
22.5°	187.3	177.4	157.6	139.2	115.2	91.9	72.8	62.2	55.8	52.3	51.6
25°	205.0	193.7	171.0	149.1	120.9	93.3	73.5	62.9	56.5	52.3	51.6
27.5°	219.1	207.1	185.2	160.4	127.9	96.8	76.3	64.3	57.3	53.0	52.3
30°	235.4	222.6	197.9	172.5	136.4	102.5	82.0	68.6	60.1	54.4	54.4
32.5°	260.1	243.1	215.6	183.8	144.9	108.8	88.4	73.5	62.9	58.7	58.7
35°	300.4	283.4	246.7	205.7	154.1	115.2	93.3	78.5	66.4	60.8	60.8
37.5°	364.7	339.3	298.3	241.7	168.9	120.2	99.0	82.0	68.6	60.8	59.4
40°	402.2	373.9	322.3	268.6	187.3	126.5	103.2	84.8	70.0	61.5	60.8
42.5°	443.9	411.4	344.9	275.7	199.3	141.4	109.6	87.6	71.4	63.6	62.2
45°	487.7	456.6	396.5	313.1	227.6	161.9	120.2	93.3	75.6	66.4	65.0
47.5°	567.6	529.4	451.6	366.1	269.3	194.4	143.5	102.5	80.6	69.3	67.9
50°	747.1	711.8	603.6	475.7	335.7	241.0	179.5	121.6	88.4	71.4	69.3
52.5°	990.2	927.3	805.1	644.6	468.6	337.9	239.6	164.0	100.4	73.5	70.0
55°	1343.6	1273.7	1092.7	883.5	641.8	490.5	362.6	246.7	142.8	75.6	69.3
57.5°	1694.9	1610.1	1458.1	1171.9	862.3	625.5	484.9	361.2	207.8	84.8	71.4
60°	1946.5	1843.3	1655.3	1393.1	1046.1	735.8	547.8	393.7	231.1	86.9	73.5
62.5°	2095.0	1965.6	1729.6	1416.4	1089.9	781.7	573.2	371.8	198.6	84.8	76.3
65°	*2121.8*	*1974.8*	*1729.6*	*1376.1*	*1044.7*	*741.4*	*554.1*	*343.5*	*156.9*	*81.3*	*78.5*
67.5°	1967.7	1830.6	1623.5	1263.8	926.6	636.8	477.1	282.7	119.4	78.5	77.7
70°	1615.0	1511.9	1342.9	1032.6	752.0	518.1	379.6	217.7	96.8	74.9	73.5
72.5°	1260.2	1164.8	1038.3	810.0	581.7	410.7	289.8	170.3	86.2	72.1	71.4
75°	991.6	920.3	815.7	639.7	437.5	311.0	219.8	128.6	77.7	70.7	69.3
77.5°	811.4	764.8	656.6	488.4	326.5	231.1	164.0	102.5	74.2	69.3	68.6
80°	631.2	592.3	524.4	365.4	234.0	173.9	129.3	90.5	72.1	68.6	67.9
82.5°	450.2	436.8	379.6	284.1	195.1	149.1	116.6	86.9	71.4	67.9	67.1
85°	376.0	356.9	314.5	246.7	179.5	142.1	111.7	85.5	71.4	67.9	67.1
87.5°	363.3	346.3	307.5	235.4	168.9	133.6	106.7	82.7	70.0	66.4	66.4
90°	320.9	303.9	274.2	212.0	155.5	124.4	99.7	78.5	67.1	63.6	63.6
92.5°	284.1	274.2	246.0	194.4	149.1	119.4	96.1	76.3	65.7	62.9	62.2
95°	240.3	231.8	209.9	175.3	139.9	113.8	93.3	74.2	64.3	61.5	61.5
97.5°	199.3	192.3	175.3	148.4	120.9	101.1	84.1	70.0	62.2	60.1	60.1
100°	176.0	170.3	155.5	133.6	111.7	94.7	81.3	69.3	61.5	58.7	58.7
102.5°	166.8	161.2	146.3	126.5	106.0	90.5	79.2	67.9	60.8	58.0	57.3
105°	159.7	154.1	140.7	120.2	100.4	86.2	74.9	66.4	59.4	57.3	56.5
107.5°	152.7	146.3	133.6	113.1	95.4	82.0	72.1	64.3	58.7	56.5	56.5
110°	144.9	139.2	127.2	107.4	91.9	79.2	70.7	63.6	58.7	56.5	56.5

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

Scaled Data Report

REPORT NUMBER: P1045754
CATALOG NUMBER: FFX-CLB-60-730-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	136.4	130.8	119.4	101.8	88.4	77.0	69.3	62.9	58.7	56.5	56.5
115°	126.5	121.6	111.0	96.1	84.1	74.2	67.1	61.5	57.3	55.8	55.8
117.5°	123.7	118.0	107.4	94.0	82.7	72.1	65.7	60.1	56.5	55.1	55.1
120°	130.1	122.3	111.0	98.2	82.7	70.7	64.3	59.4	55.8	54.4	54.4
122.5°	138.5	132.2	119.4	96.1	79.9	69.3	62.9	58.7	55.1	54.4	54.4
125°	130.8	126.5	114.5	89.1	77.0	67.9	62.2	58.7	55.8	54.4	54.4
127.5°	114.5	110.3	101.1	84.8	74.2	66.4	61.5	58.7	56.5	54.4	54.4
130°	108.1	102.5	94.0	81.3	71.4	64.3	60.8	58.7	56.5	53.7	53.0
132.5°	111.0	106.0	92.6	76.3	67.1	61.5	58.7	57.3	53.0	50.2	49.5
135°	104.6	99.7	86.2	72.8	65.0	60.8	58.0	53.7	49.5	45.9	45.9
137.5°	93.3	87.6	79.9	70.0	64.3	62.2	58.7	53.0	47.4	44.5	44.5
140°	92.6	86.2	79.2	69.3	62.9	57.3	53.0	47.4	43.1	41.7	41.0
142.5°	94.0	89.8	79.9	68.6	60.1	53.0	48.1	43.8	41.0	38.9	38.9
145°	108.8	102.5	89.8	74.9	65.0	56.5	49.5	43.8	39.6	36.0	35.3
147.5°	112.4	106.0	94.7	82.0	69.3	58.7	48.8	41.7	36.0	33.2	32.5
150°	94.0	89.8	83.4	73.5	62.2	51.6	43.1	36.8	33.2	31.8	31.1
152.5°	71.4	70.0	65.7	58.7	50.9	43.8	38.2	34.6	32.5	31.8	31.1
155°	60.8	60.1	55.8	50.2	43.8	38.9	35.3	33.2	31.8	31.8	31.1
157.5°	56.5	55.1	51.6	45.9	40.3	37.5	33.9	32.5	31.8	31.8	31.8
160°	47.4	45.9	43.1	41.0	37.5	35.3	33.2	32.5	31.8	31.8	31.1
162.5°	42.4	41.0	39.6	37.5	36.8	36.0	35.3	33.9	33.2	32.5	32.5
165°	40.3	39.6	37.5	36.8	36.8	37.5	37.5	36.0	34.6	33.2	33.2
167.5°	39.6	38.9	37.5	36.8	38.2	38.9	39.6	38.2	36.8	34.6	33.9
170°	39.6	39.6	38.9	38.2	38.9	39.6	40.3	40.3	39.6	38.2	38.2
172.5°	39.6	40.3	39.6	39.6	39.6	39.6	39.6	41.0	41.0	40.3	40.3
175°	42.4	42.4	40.3	39.6	40.3	41.0	41.7	41.0	41.0	41.7	41.7
177.5°	38.9	40.3	43.1	43.8	45.2	45.2	43.8	43.1	41.0	40.3	40.3
180°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3

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: SP1-2501-332-4

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

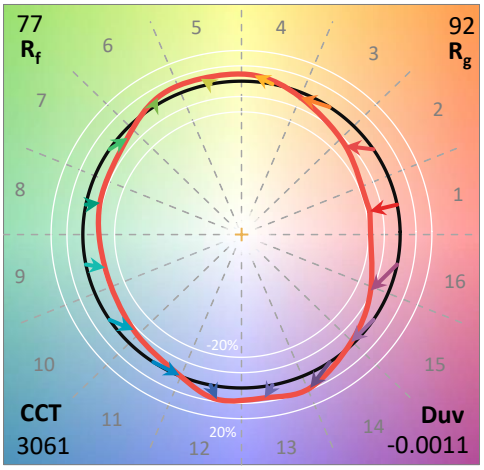
Test Information

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

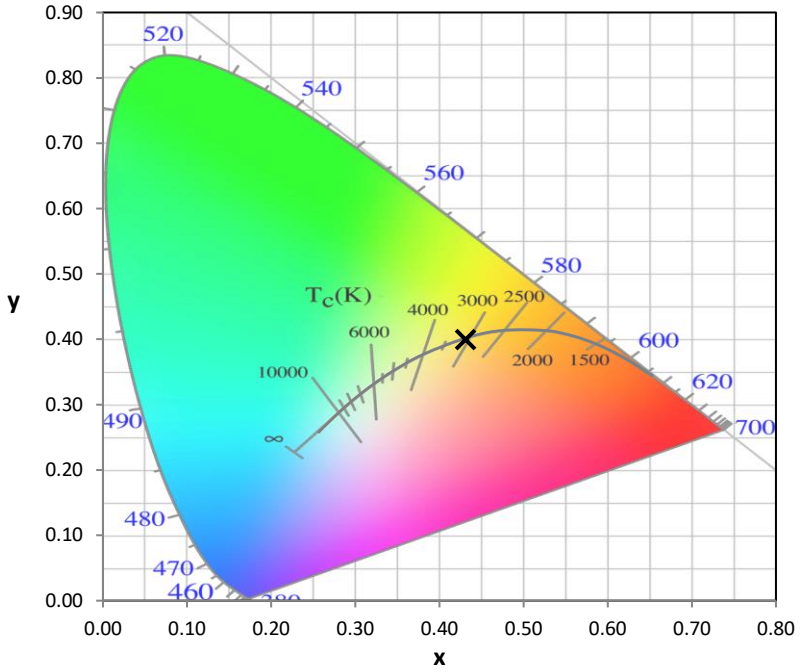
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

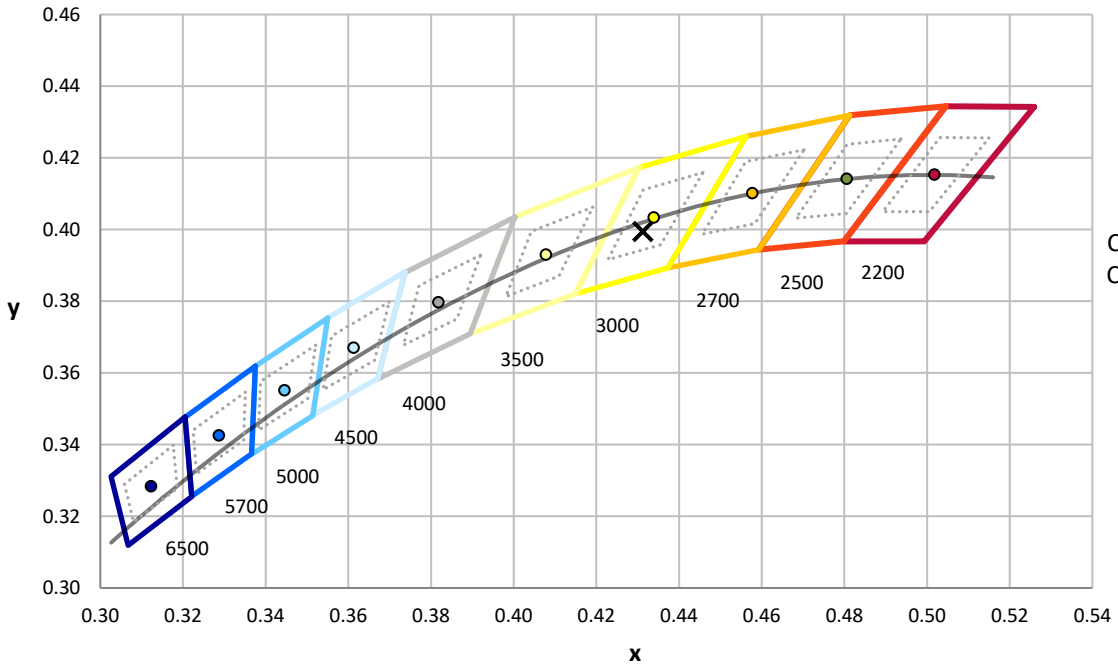
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

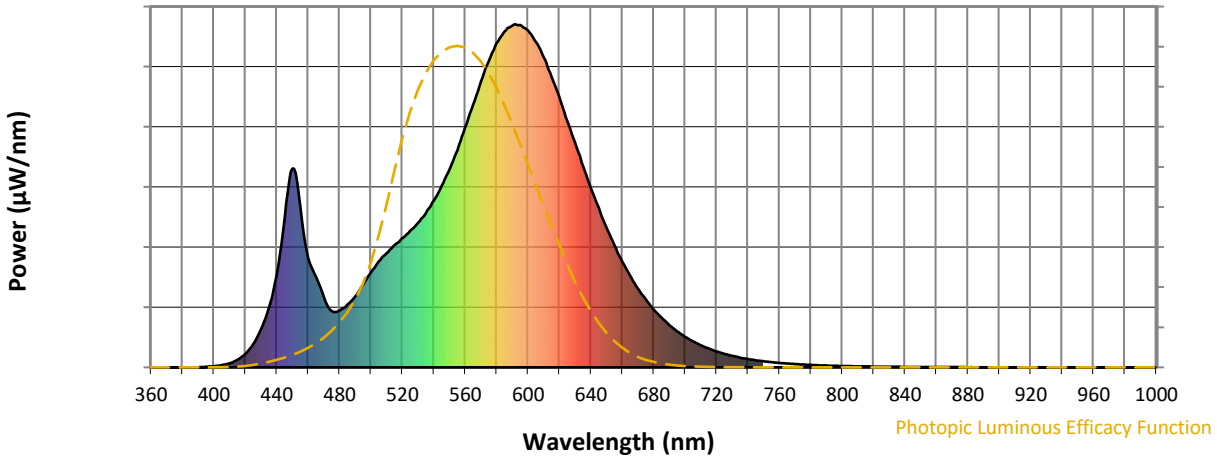


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

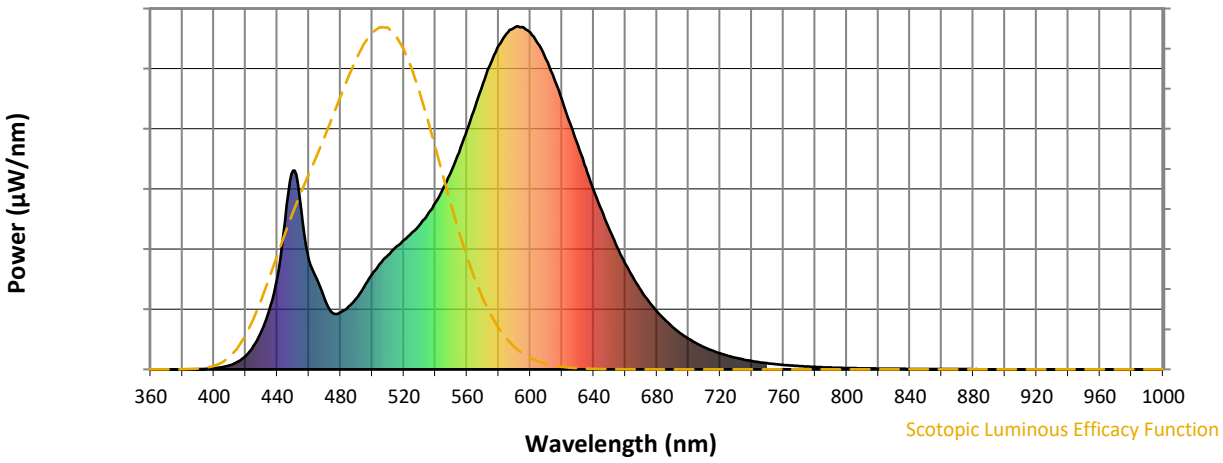


Photopic Lumens: NR

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

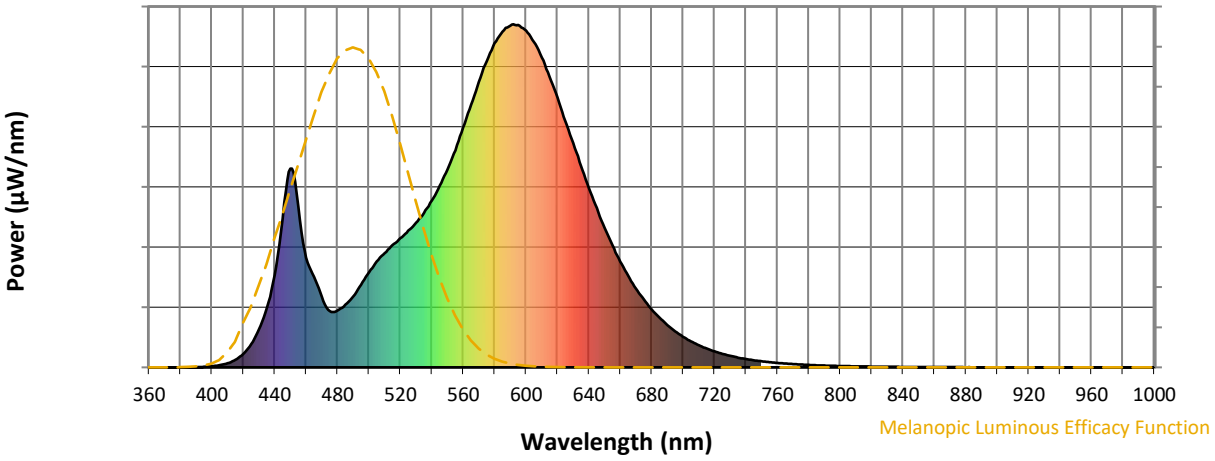


Scotopic Lumens: NR **S/P: 1.29**

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			

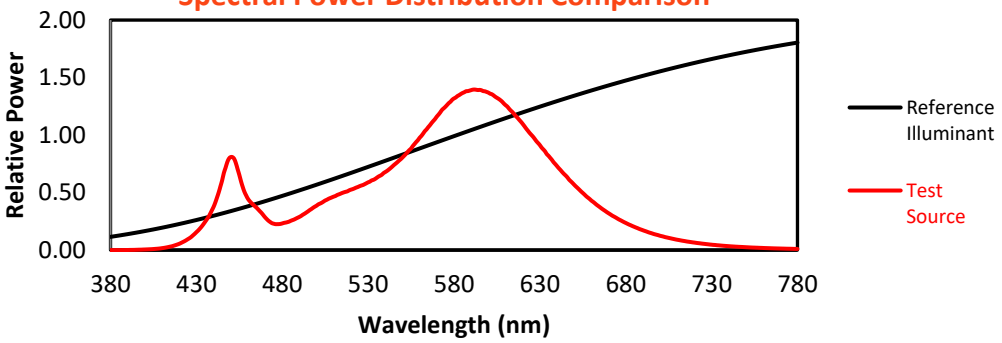
REPORT NUMBER: SP1-2501-332-4

TM-30-18

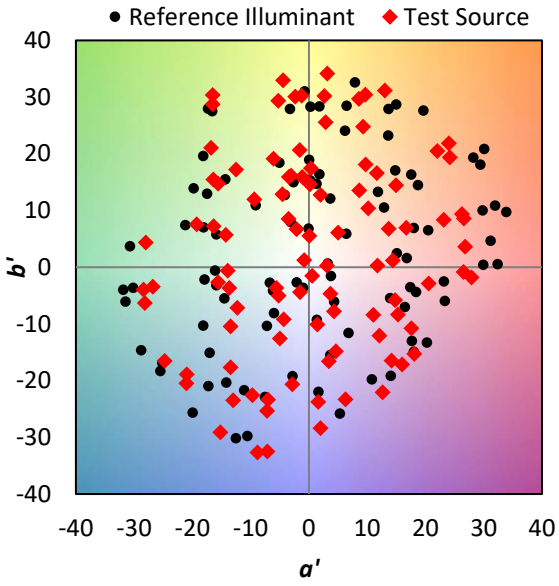
Summary

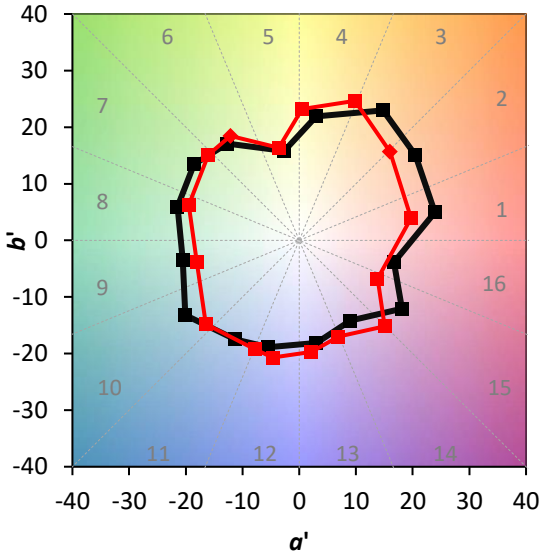
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

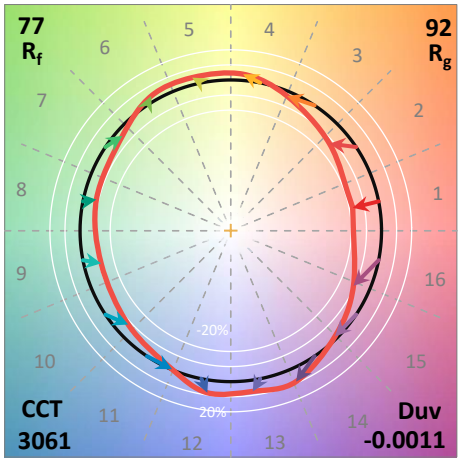
Spectral Power Distribution Comparison

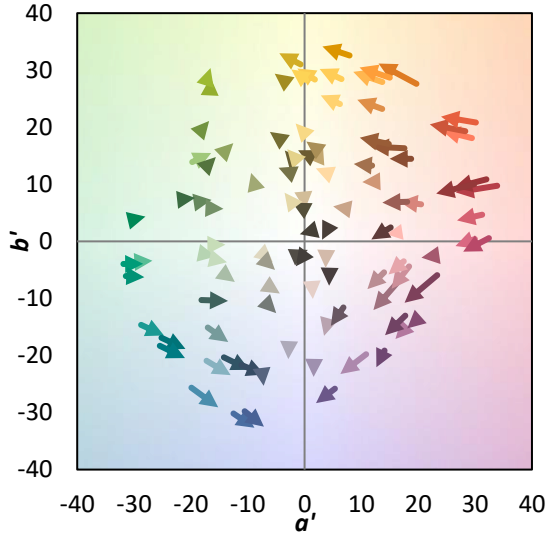


Color Vector Graphics







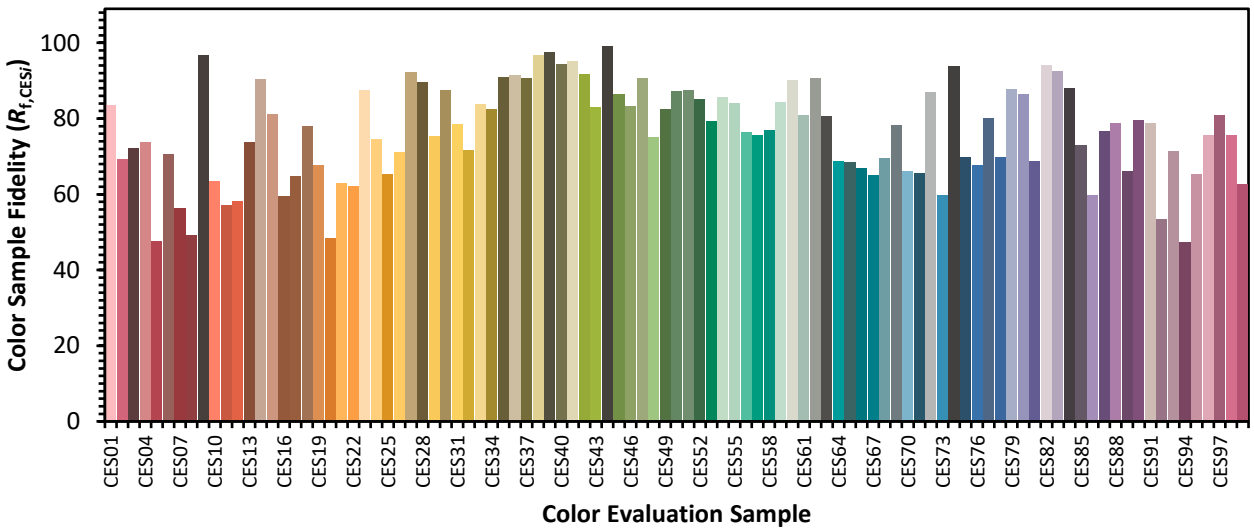


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

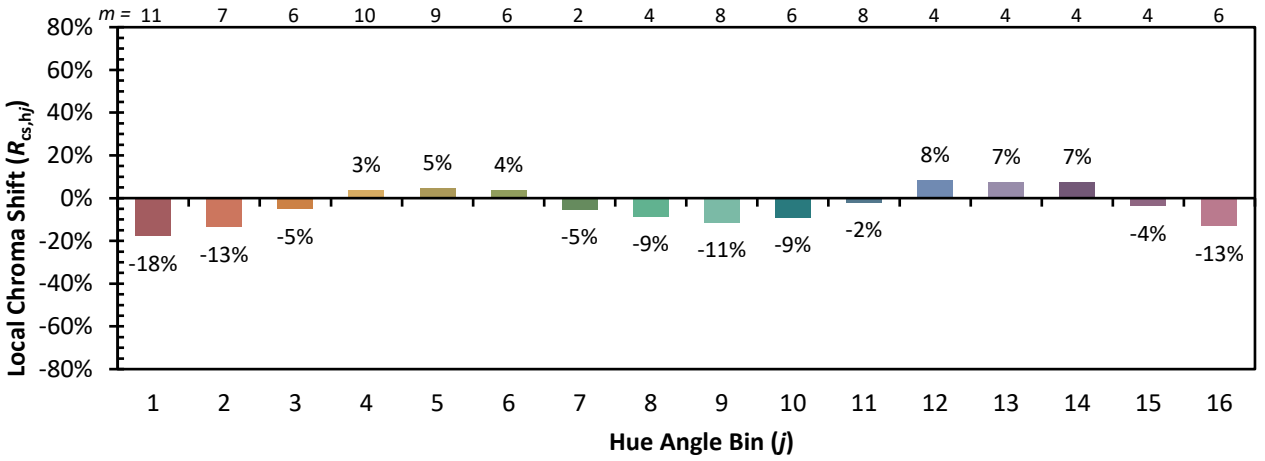
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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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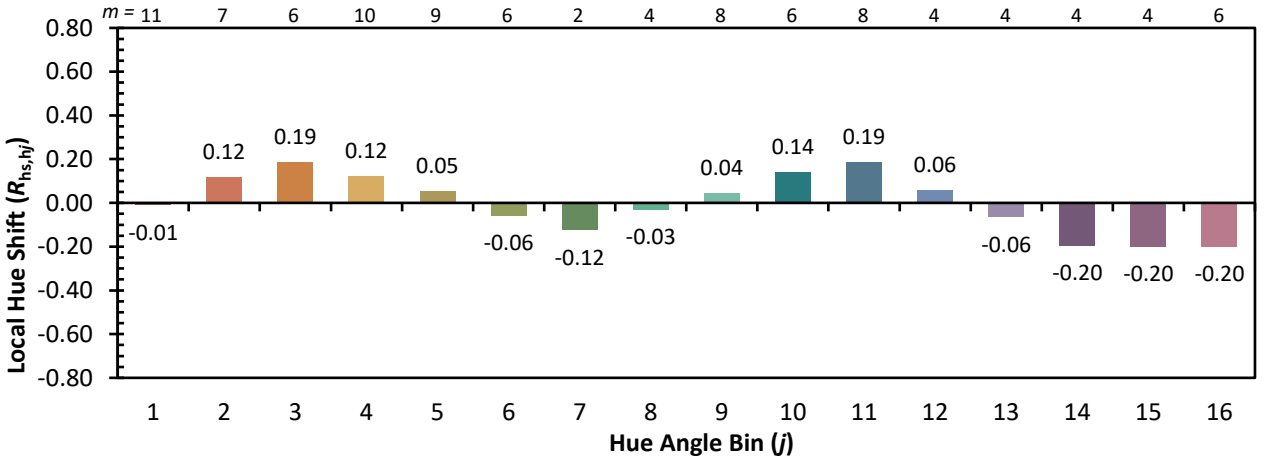


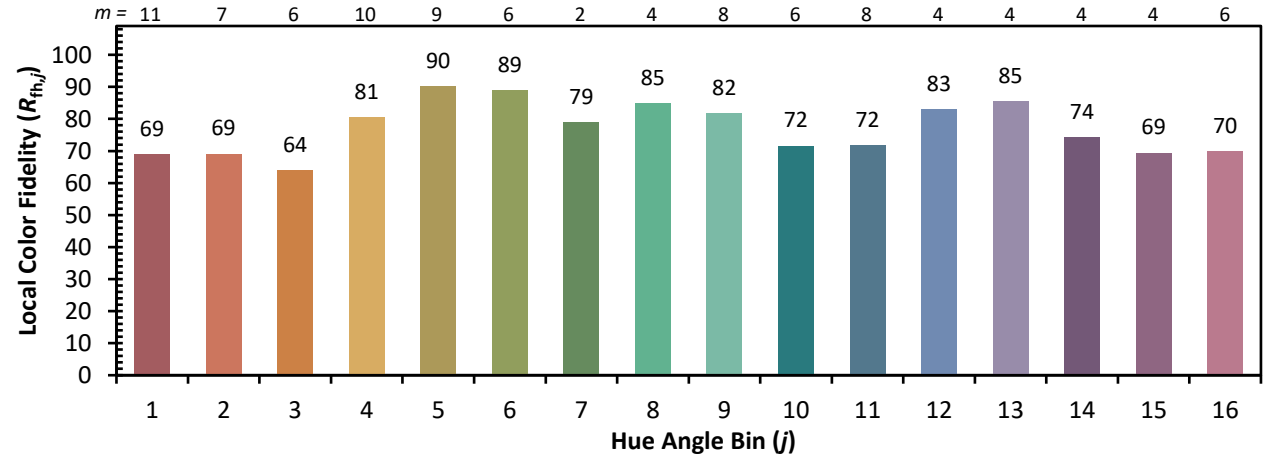
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Color Rendition by Hue-Angle Bin



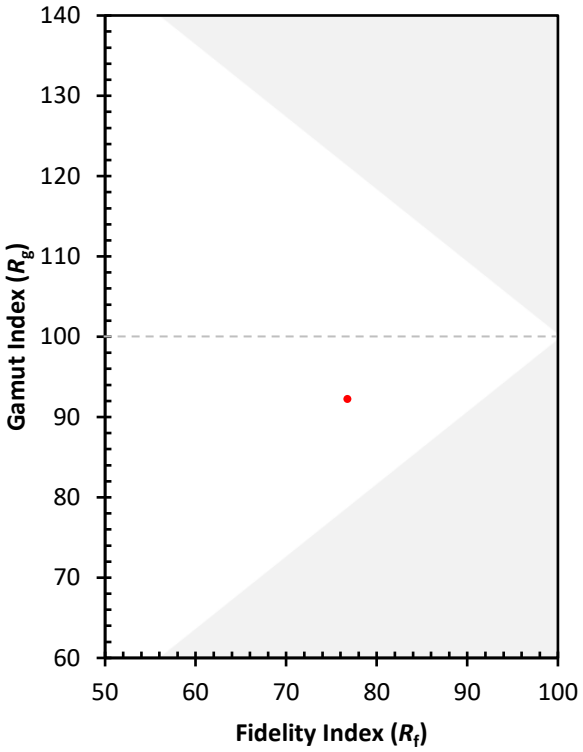


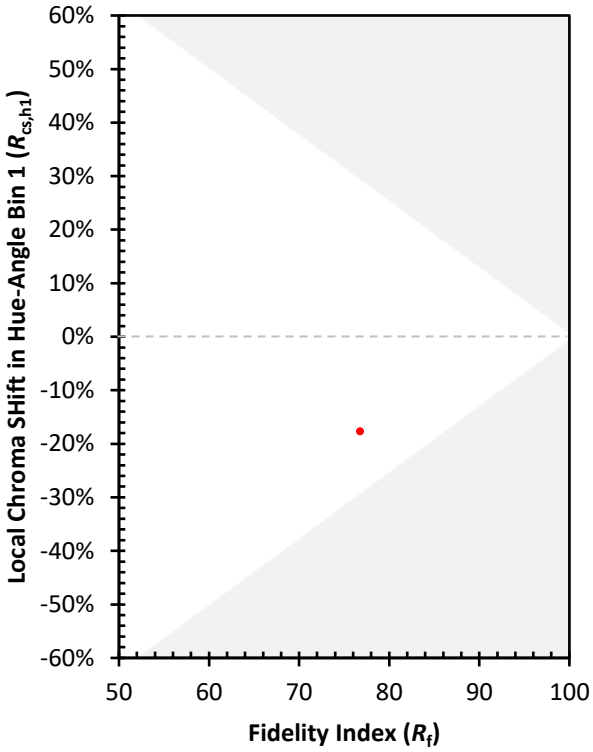


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Measure Comparisons





(END OF REPORT)