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: P1046266

Luminaire Tested: **FFX-CLB-70-750-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:	P1046266
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-750-U-FR-T4-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(4) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10366.6 lumens
Efficiency:	N/A
Efficacy:	145.6 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G4

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

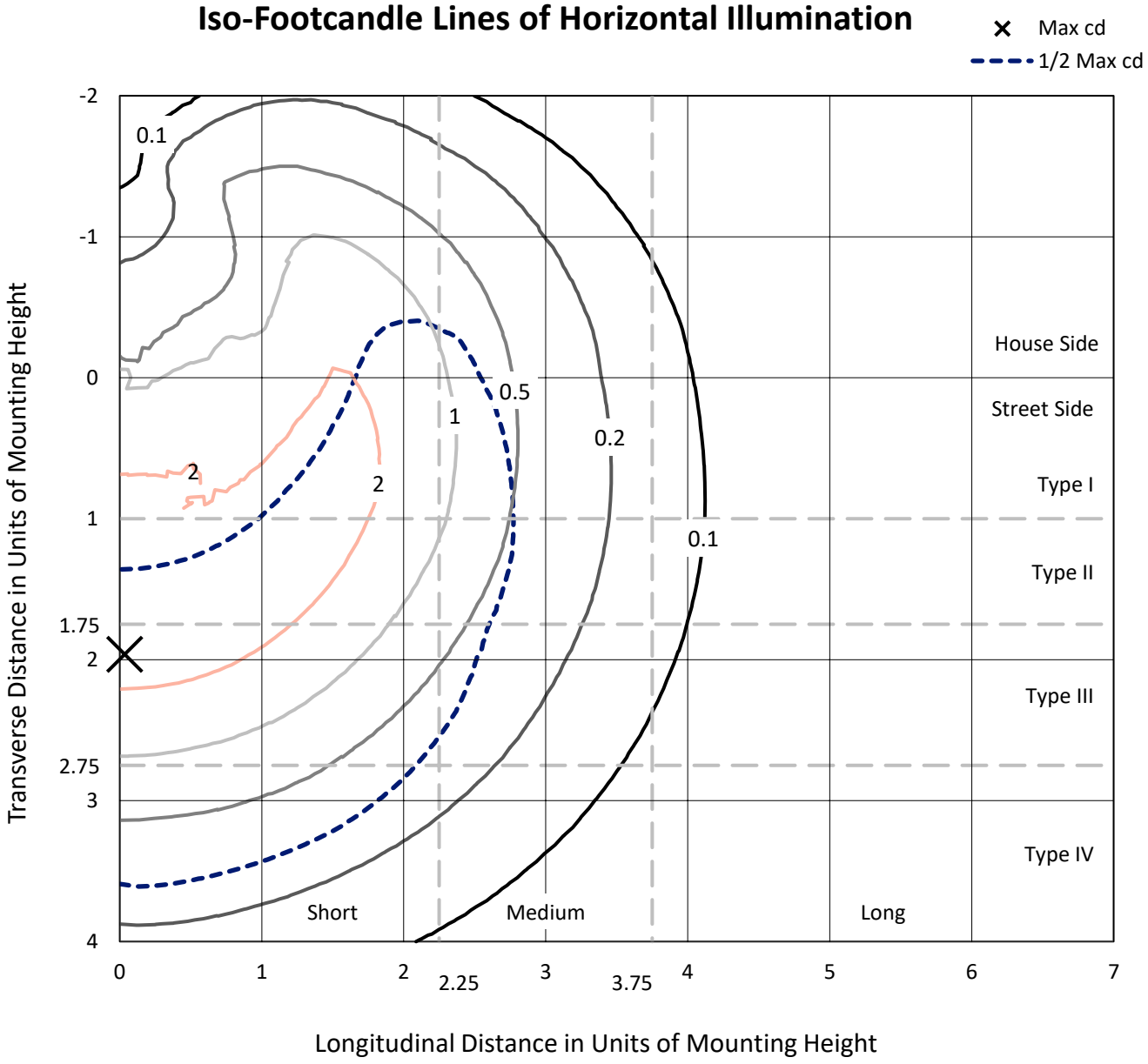


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Iso-Footcandle Lines of Horizontal Illumination



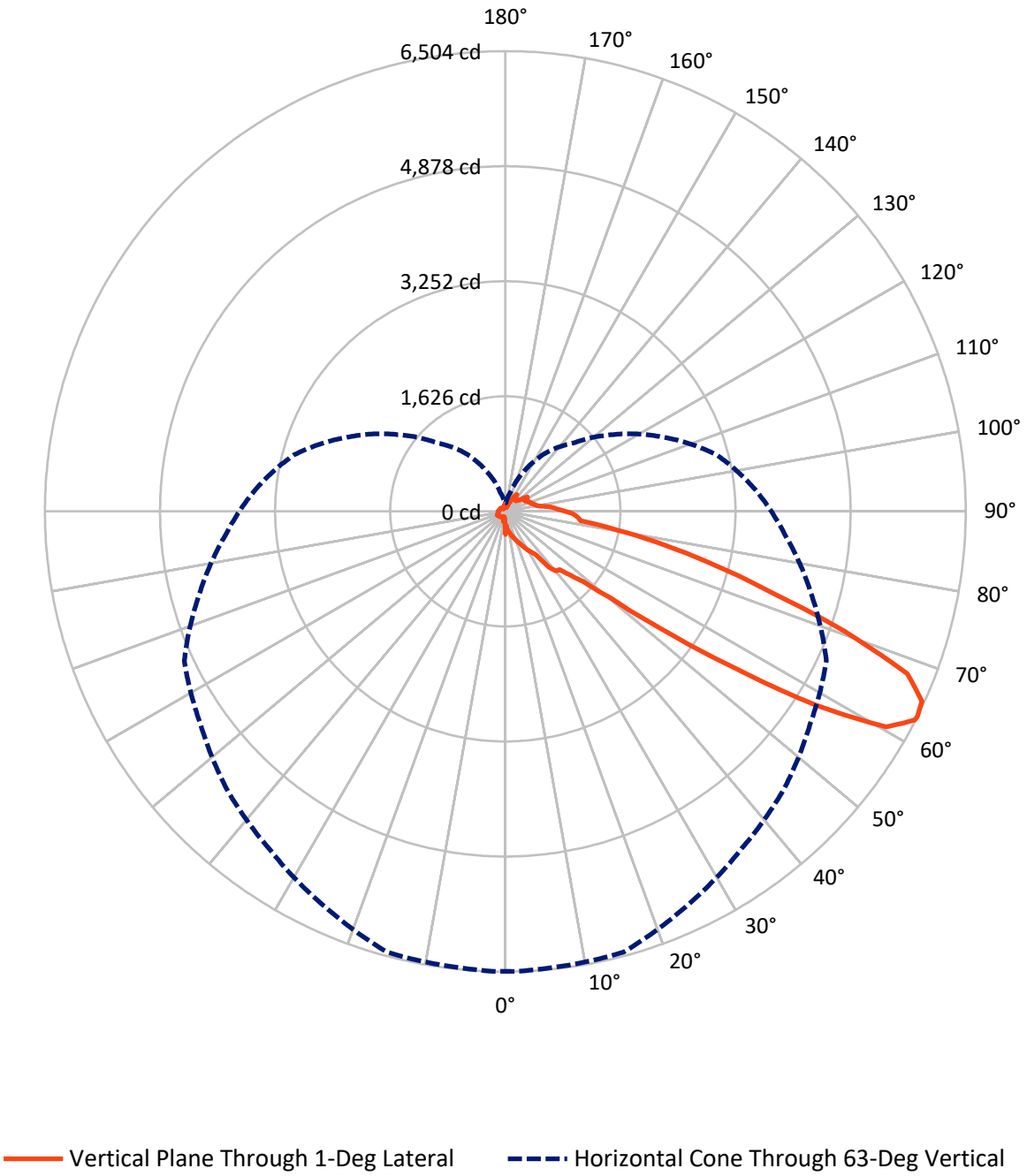
Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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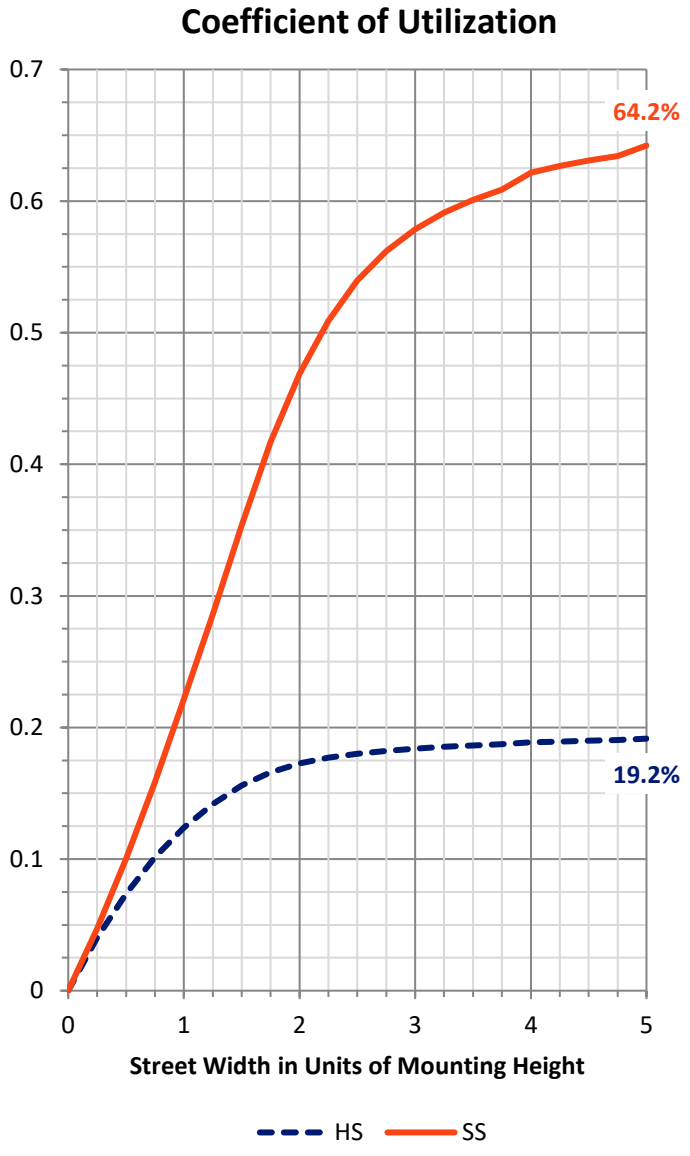
REPORT NUMBER: P1046266
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2052.5	411.2	2463.7
	% Fixture	19.8	4.0	23.8
Street Side	Lumens	6953.6	949.2	7902.9
	% Fixture	67.1	9.2	76.2
Total	Lumens	9006.2	1360.4	10366.6
	% Fixture	86.9	13.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	0.2
10°-20°	68.2	0.7
20°-30°	150.4	1.5
30°-40°	307.9	3.0
40°-50°	621.6	6.0
50°-60°	2006.6	19.4
60°-70°	3305.9	31.9
70°-80°	1822.3	17.6
80°-90°	704.0	6.8
90°-100°	422.1	4.1
100°-110°	268.9	2.6
110°-120°	205.6	2.0
120°-130°	175.5	1.7
130°-140°	117.7	1.1
140°-150°	100.2	1.0
150°-160°	45.7	0.4
160°-170°	18.5	0.2
170°-180°	6.3	0.1
0°-90°	9006.2	86.9
0°-180°	10366.6	100.0



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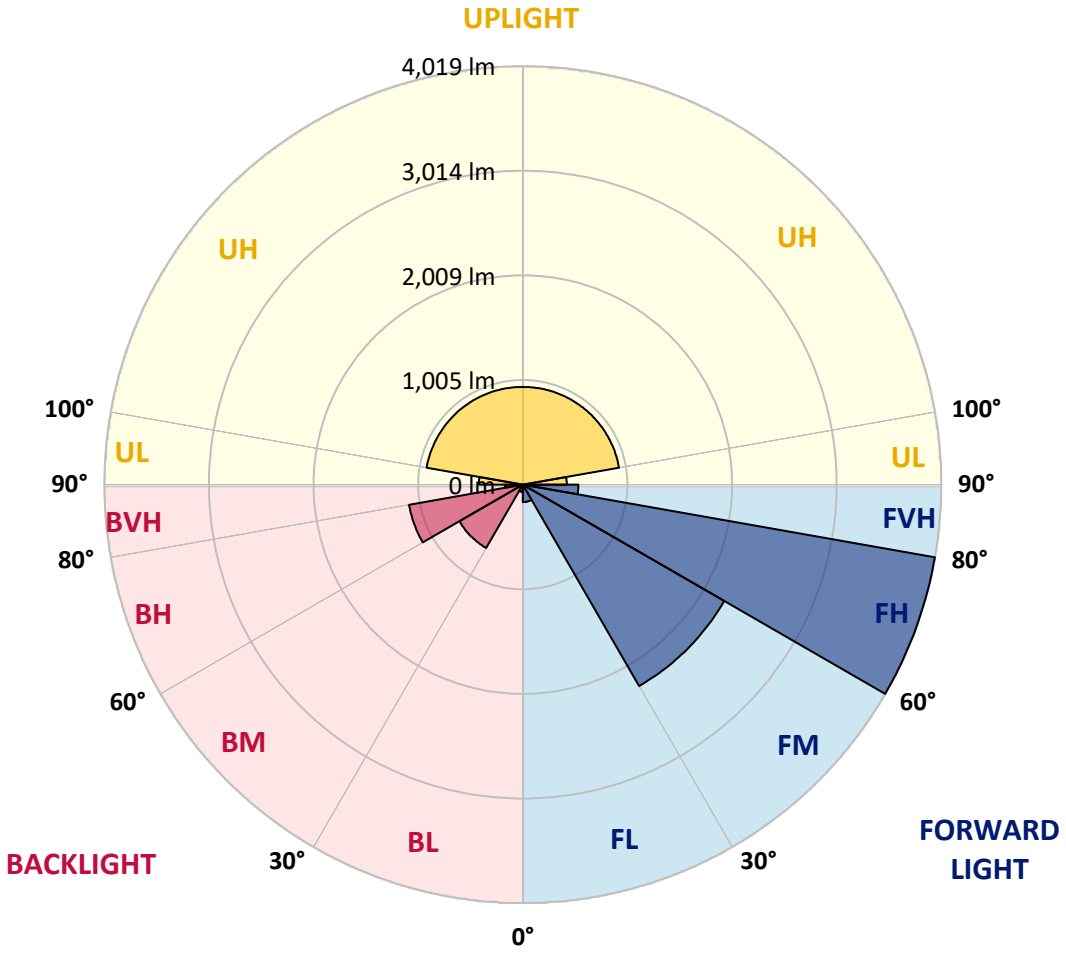
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	167.9	1.6			
FM	(30°-60°)	2233.4	21.5			
FH	(60°-80°)	4018.9	38.8			G2/5000
FVH	(80°-90°)	533.5	5.1			G4/750
BL	(0°-30°)	70.0	0.7	B0/110		
BM	(30°-60°)	702.7	6.8	B1/1000		
BH	(60°-80°)	1109.3	10.7	B3/2500		G3/2500
BVH	(80°-90°)	170.6	1.6			G2/225
UL	(90°-100°)	422.1	4.1		U3/500	
UH	(100°-180°)	938.3	9.1		U4/1000	

BUG Rating: B3-U4-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2
2.5°	202.8	200.6	210.2	239.7	272.1	282.4	261.0	252.9	276.5	331.1	337.0
5°	233.8	237.5	235.2	238.9	241.9	264.7	285.4	264.0	213.9	174.8	177.7
7.5°	275.8	275.1	275.1	272.1	257.4	233.8	227.1	244.1	244.8	205.0	174.0
10°	294.2	293.5	293.5	290.5	287.6	289.8	282.4	251.5	226.4	210.2	199.8
12.5°	333.3	331.8	331.1	329.6	324.5	318.6	313.4	314.9	293.5	252.9	226.4
15°	365.8	364.3	365.8	367.2	363.6	353.2	338.5	317.8	298.7	281.7	258.1
17.5°	401.2	400.4	399.7	398.2	393.0	379.0	361.3	342.2	320.8	297.2	275.1
20°	435.1	433.6	434.3	435.1	432.9	415.9	398.2	374.6	351.8	328.9	303.1
22.5°	475.6	475.6	473.4	473.4	471.2	460.9	438.8	411.5	387.9	359.1	330.4
25°	528.0	525.8	525.8	523.6	514.7	503.7	488.2	457.2	429.2	401.9	363.6
27.5°	579.6	577.4	577.4	576.7	565.6	550.9	525.0	495.6	469.0	434.3	387.9
30°	638.6	637.1	637.9	629.8	620.9	600.3	567.8	533.9	499.2	458.7	413.7
32.5°	698.3	693.9	693.2	684.3	672.5	647.5	611.3	578.9	542.7	495.6	457.9
35°	768.4	758.8	769.1	766.9	765.5	738.9	697.6	660.0	617.2	574.5	533.9
37.5°	1000.0	1004.4	1002.2	972.7	949.1	912.9	894.5	850.3	791.3	738.9	662.2
40°	1109.1	1107.6	1103.9	1071.5	1050.1	1012.5	983.0	949.8	915.1	833.3	738.2
42.5°	1132.7	1124.6	1130.5	1160.7	1188.7	1163.7	1070.0	963.1	914.4	856.9	807.5
45°	1305.2	1284.6	1293.5	1301.6	1274.3	1238.1	1197.6	1128.3	1046.4	963.8	873.1
47.5°	1489.6	1478.5	1477.8	1474.9	1477.8	1443.1	1389.3	1325.2	1209.4	1120.2	1019.1
50°	1938.7	1924.0	1928.4	1932.1	1916.6	1881.2	1822.9	1780.9	1642.3	1471.2	1339.9
52.5°	2762.4	2753.6	2732.9	2734.4	2595.0	2587.6	2508.7	2471.1	2266.9	2071.4	1806.7
55°	3779.3	3836.8	3773.4	3760.9	3703.4	3651.7	3454.1	3290.4	2997.6	2716.7	2406.2
57.5°	5156.8	5166.4	5086.0	5088.3	4884.0	4754.2	4572.1	4321.3	3885.5	3479.9	3131.9
60°	6160.5	6184.8	6147.2	6069.0	5673.8	5441.5	5240.9	5043.3	4710.7	4108.2	3623.7
62.5°	6487.2	6494.5	6470.9	6429.6	6080.8	5784.4	5526.3	5239.4	4984.3	4441.5	3954.8
63°	6499.0	6504.1	6485.7	6450.3	6126.6	5819.1	5561.0	5254.2	5004.2	4471.0	3974.7
65°	6467.3	6469.5	6461.4	6414.2	6155.3	5830.1	5546.2	5243.9	5014.5	4482.8	3974.7
67.5°	6181.9	6125.8	6149.4	6069.8	5854.4	5530.7	5259.3	4951.1	4744.6	4230.6	3743.9
70°	5086.0	5089.7	5086.0	5042.5	4981.3	4725.4	4408.3	4131.1	3870.0	3466.7	3084.7
72.5°	3934.9	3950.4	3916.5	3941.6	3892.1	3680.5	3475.5	3194.5	3010.9	2668.8	2331.8
75°	3047.8	3079.5	3089.8	3018.3	2975.5	2930.5	2818.5	2616.4	2432.8	2168.0	1873.8
77.5°	2303.0	2308.9	2317.7	2269.1	2213.0	2230.7	2214.5	2118.6	1964.5	1769.8	1536.1
80°	1591.4	1608.3	1637.1	1609.1	1615.7	1605.4	1603.2	1526.5	1415.1	1292.7	1167.3
82.5°	1069.3	1068.5	1075.9	1120.9	1162.2	1160.7	1095.1	987.4	930.6	895.2	824.4
85°	1023.6	1023.6	1033.9	1001.4	980.8	960.1	955.7	918.8	875.3	795.7	697.6
87.5°	954.2	952.0	955.0	926.9	899.7	893.0	886.4	854.7	835.5	766.2	676.2
90°	816.3	822.2	822.2	820.0	803.1	796.4	769.9	743.3	731.5	668.8	598.1
92.5°	720.5	720.5	728.6	714.6	696.1	706.5	660.7	626.1	609.9	567.8	511.8
95°	651.1	648.9	659.3	639.4	626.1	606.9	587.7	551.6	539.8	503.7	446.9
97.5°	519.9	517.7	523.6	514.0	493.3	484.5	463.8	435.1	424.0	390.1	355.4
100°	447.6	446.9	449.1	443.9	432.1	421.1	403.4	380.5	370.2	342.2	311.2
102.5°	424.8	422.5	423.3	424.0	407.1	396.7	379.8	362.1	351.8	328.9	295.0
105°	404.1	402.6	401.2	401.2	382.0	371.7	360.6	348.8	340.0	314.9	282.4
107.5°	384.9	382.7	377.6	376.8	364.3	353.2	340.0	329.6	320.8	297.9	266.9

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	363.6	*362.8*	359.9	360.6	352.5	335.5	324.5	311.9	300.9	281.0	253.7
112.5°	352.5	*352.5*	350.3	354.0	323.0	306.0	294.2	283.2	275.8	256.6	236.0
115°	340.7	*334.8*	332.6	340.0	304.6	281.0	269.2	257.4	250.0	230.8	213.9
117.5°	315.6	*314.1*	314.9	320.8	310.5	284.6	265.5	250.7	243.4	229.3	213.9
120°	359.9	*358.4*	349.5	348.1	330.4	309.7	297.2	289.1	278.0	255.2	225.7
122.5°	376.1	*373.1*	359.1	363.6	340.0	329.6	324.5	321.5	311.2	281.0	236.0
125°	327.4	*323.0*	319.3	320.8	307.5	294.2	289.1	284.6	274.3	257.4	224.9
127.5°	262.5	*264.7*	261.8	253.7	251.5	231.6	224.9	219.8	210.2	196.2	191.0
130°	246.3	*244.8*	244.1	242.6	241.1	226.4	216.1	203.5	195.4	183.6	169.6
132.5°	219.0	*220.5*	222.7	235.2	247.0	234.5	208.0	188.8	183.6	185.8	179.9
135°	208.0	*208.7*	208.7	218.3	228.6	216.1	196.2	177.7	175.5	183.6	176.2
137.5°	213.1	*216.8*	216.1	213.9	208.0	199.1	194.7	184.4	178.5	173.3	160.8
140°	224.9	*229.3*	227.1	214.6	210.2	205.7	208.7	205.0	190.3	172.6	154.1
142.5°	223.4	*227.1*	225.7	224.2	232.3	222.0	208.0	193.9	182.1	172.6	160.8
145°	289.8	*288.3*	282.4	282.4	272.8	257.4	247.8	233.0	219.0	206.5	187.3
147.5°	267.7	*271.4*	272.8	266.2	261.8	251.5	250.0	241.9	237.5	226.4	206.5
150°	212.4	*215.3*	210.9	205.7	203.5	204.3	200.6	194.7	190.3	182.1	173.3
152.5°	146.7	*148.2*	146.7	142.3	140.8	138.6	139.4	134.9	132.0	126.8	118.7
155°	133.5	*134.2*	134.9	127.6	126.1	126.8	127.6	124.6	118.7	114.3	104.7
157.5°	104.7	*103.2*	103.2	101.8	102.5	100.3	100.3	99.6	97.3	94.4	91.4
160°	83.3	*84.1*	84.1	84.1	85.5	84.1	84.1	81.9	81.9	80.4	78.9
162.5°	70.8	*70.8*	70.8	70.8	70.1	70.1	71.5	70.8	70.8	71.5	73.0
165°	59.7	*60.5*	60.5	60.5	60.5	60.5	61.9	61.9	63.4	66.4	70.1
167.5°	56.0	*55.3*	55.3	56.0	56.0	57.5	57.5	60.5	65.6	70.8	70.8
170°	53.1	*53.1*	53.1	53.8	53.8	54.6	56.8	61.9	67.8	70.1	67.1
172.5°	55.3	*54.6*	54.6	55.3	55.3	57.5	60.5	64.9	67.1	67.1	64.2
175°	56.8	*56.0*	56.0	56.8	56.8	58.3	61.2	64.2	65.6	66.4	66.4
177.5°	55.3	*55.3*	55.3	55.3	55.3	56.0	56.0	58.3	59.7	61.2	62.7
180°	53.1	*53.1*	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2	328.2
2.5°	337.0	307.5	264.0	210.9	245.6	288.3	282.4	249.3	199.1	149.7	149.7
5°	186.6	197.6	208.7	182.9	163.7	162.2	157.8	141.6	139.4	115.0	108.4
7.5°	163.0	152.6	150.4	177.7	175.5	115.8	91.4	81.1	85.5	115.8	119.5
10°	195.4	191.0	177.0	147.5	123.2	112.1	111.4	112.8	103.2	83.3	78.2
12.5°	220.5	213.1	200.6	191.7	163.7	130.5	112.1	104.0	109.9	139.4	146.0
15°	244.8	234.5	213.1	188.8	160.8	136.4	117.3	100.3	100.3	95.9	93.7
17.5°	264.0	250.7	224.9	198.4	166.7	136.4	111.4	94.4	86.3	84.8	84.8
20°	288.3	275.8	247.8	215.3	175.5	137.9	110.6	94.4	84.8	81.1	80.4
22.5°	318.6	302.3	266.2	227.9	180.7	139.4	112.1	95.1	85.5	80.4	78.9
25°	346.6	328.2	285.4	245.6	192.5	143.1	113.6	97.3	87.0	81.1	80.4
27.5°	369.5	349.5	309.7	264.0	205.0	151.9	120.9	101.8	89.2	83.3	81.9
30°	395.3	376.8	334.8	283.2	216.8	163.0	131.3	109.9	95.9	87.8	87.0
32.5°	433.6	410.7	362.1	303.1	230.8	174.8	141.6	117.3	100.3	95.9	95.9
35°	502.9	479.3	415.2	335.5	244.1	186.6	151.9	125.4	106.9	96.6	95.9
37.5°	632.7	600.3	519.9	409.3	266.9	196.2	160.8	132.0	110.6	95.9	93.7
40°	692.4	637.1	551.6	448.4	300.1	207.2	168.1	137.2	111.4	98.1	96.6
42.5°	763.2	716.8	595.8	457.9	324.5	234.5	180.7	143.1	115.8	101.0	99.6
45°	831.1	786.1	684.3	541.3	379.0	275.1	202.8	154.9	123.2	105.5	102.5
47.5°	954.2	907.0	765.5	626.8	454.3	338.5	247.0	173.3	133.5	109.9	106.2
50°	1274.3	1207.2	1040.5	830.3	581.1	429.9	316.4	211.6	147.5	112.1	107.7
52.5°	1687.2	1584.7	1404.1	1135.6	831.1	608.4	443.2	307.5	171.8	112.8	106.2
55°	2356.8	2230.7	1940.2	1547.9	1163.7	907.8	671.1	472.7	252.9	118.0	105.5
57.5°	2991.7	2898.1	2644.4	2117.9	1543.4	1153.3	882.7	665.2	344.4	129.8	110.6
60°	3458.5	3280.1	2983.6	2443.8	1864.2	1338.4	982.3	691.7	354.0	132.0	114.3
62.5°	3737.3	3516.8	3077.3	2491.0	1909.9	1376.8	1022.1	636.4	286.1	129.1	119.5
63°	*3757.9*	*3544.1*	*3089.1*	*2474.8*	*1895.2*	*1366.5*	*1016.2*	*623.1*	*278.0*	*128.3*	*120.9*
65°	3732.1	3546.3	3047.8	2390.0	1769.8	1275.0	946.1	559.7	225.7	126.1	122.4
67.5°	3475.5	3324.3	2831.7	2160.7	1575.9	1101.0	783.1	427.0	176.2	120.2	118.7
70°	2909.2	2735.9	2289.0	1786.1	1249.2	889.3	624.6	331.1	145.3	114.3	112.8
72.5°	2165.1	2092.8	1738.9	1359.1	960.9	685.8	469.0	251.5	129.1	109.9	108.4
75°	1750.7	1642.3	1379.0	1073.7	730.8	509.6	348.1	188.8	118.0	106.2	104.7
77.5°	1447.6	1375.3	1147.4	810.4	521.4	367.2	255.9	149.7	112.8	104.0	103.2
80°	1120.9	1075.9	895.2	599.5	373.1	273.6	202.8	137.2	110.6	103.2	102.5
82.5°	790.5	776.5	651.9	448.4	317.1	244.8	188.8	134.9	111.4	104.7	103.2
85°	654.8	624.6	548.6	426.2	300.9	234.5	182.1	132.7	111.4	104.0	103.2
87.5°	637.9	612.8	530.9	398.9	275.8	216.8	171.1	127.6	107.7	101.0	100.3
90°	576.7	551.6	475.6	356.2	259.6	203.5	160.0	120.9	103.2	98.1	96.6
92.5°	491.9	469.0	413.0	323.7	248.5	195.4	155.6	118.7	102.5	96.6	95.9
95°	427.0	407.8	362.1	297.9	229.3	182.1	147.5	114.3	99.6	94.4	93.7
97.5°	340.0	328.2	292.8	242.6	193.9	159.3	132.0	107.7	95.9	91.4	90.7
100°	299.4	289.1	261.0	219.8	179.9	150.4	127.6	105.5	92.9	89.2	88.5
102.5°	281.0	272.8	247.8	206.5	168.9	143.1	121.7	101.8	90.7	87.0	86.3
105°	266.9	259.6	236.7	196.9	159.3	133.5	114.3	97.3	87.0	84.1	83.3
107.5°	250.0	244.1	222.0	182.9	149.7	125.4	108.4	93.7	84.8	81.9	81.9

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

Scaled Data Report

REPORT NUMBER: P1046266
CATALOG NUMBER: FFX-CLB-70-750-U-FR-T4-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	236.0	231.6	208.7	174.8	143.1	120.2	104.7	92.2	84.1	81.1	81.1
112.5°	221.2	216.1	194.7	164.4	137.2	116.5	101.8	90.0	82.6	79.6	79.6
115°	205.0	199.8	179.2	152.6	129.8	110.6	97.3	86.3	79.6	77.4	77.4
117.5°	208.0	194.7	169.6	146.0	123.9	106.2	94.4	84.8	77.4	76.0	75.2
120°	210.9	193.9	175.5	153.4	127.6	104.0	92.2	82.6	76.7	74.5	74.5
122.5°	205.7	208.0	191.7	157.8	121.7	101.8	91.4	83.3	77.4	75.2	76.0
125°	201.3	206.5	187.3	149.0	117.3	101.0	91.4	85.5	80.4	78.2	78.2
127.5°	185.1	185.8	159.3	133.5	114.3	98.8	90.7	86.3	81.9	78.9	77.4
130°	163.0	161.5	149.0	129.8	107.7	95.1	87.8	85.5	81.1	76.0	75.2
132.5°	174.8	170.3	149.7	123.2	101.8	91.4	87.0	84.1	76.7	70.8	70.1
135°	165.9	161.5	140.1	115.0	98.8	92.9	90.7	83.3	72.3	67.8	67.1
137.5°	151.2	143.8	126.1	109.9	100.3	96.6	91.4	81.9	70.8	65.6	64.9
140°	145.3	137.9	123.9	112.8	101.8	90.0	81.1	72.3	64.9	60.5	59.7
142.5°	152.6	146.7	132.7	112.8	95.1	82.6	74.5	68.6	61.9	55.3	54.6
145°	177.7	166.7	147.5	126.8	108.4	93.7	81.1	68.6	56.8	49.4	48.7
147.5°	196.9	188.0	167.4	143.8	118.0	94.4	76.0	60.5	50.9	46.5	45.7
150°	163.7	158.5	143.1	123.9	104.7	83.3	65.6	53.8	47.9	46.5	46.5
152.5°	114.3	110.6	105.5	92.9	78.2	65.6	56.0	50.1	47.9	47.2	47.2
155°	101.0	98.8	92.2	81.1	70.8	61.2	53.8	49.4	48.7	47.9	47.9
157.5°	87.0	86.3	81.9	73.0	64.9	57.5	52.4	50.1	48.7	47.9	47.9
160°	78.2	76.0	71.5	65.6	60.5	56.0	53.1	51.6	50.1	49.4	49.4
162.5°	73.0	71.5	66.4	61.9	59.0	58.3	59.0	58.3	54.6	52.4	51.6
165°	69.3	68.6	63.4	60.5	59.0	62.7	67.1	65.6	59.0	55.3	55.3
167.5°	69.3	67.8	62.7	60.5	64.2	69.3	73.0	72.3	66.4	62.7	60.5
170°	65.6	64.2	62.7	63.4	68.6	70.8	71.5	73.0	73.7	77.4	78.9
172.5°	63.4	63.4	64.9	67.8	72.3	73.0	70.8	71.5	78.2	86.3	87.0
175°	66.4	66.4	69.3	74.5	76.7	78.2	75.2	76.0	83.3	91.4	92.2
177.5°	63.4	64.2	65.6	66.4	65.6	63.4	62.7	65.6	63.4	62.7	64.9
180°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

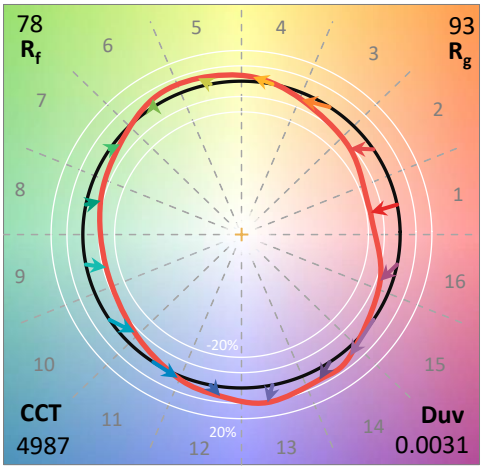
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

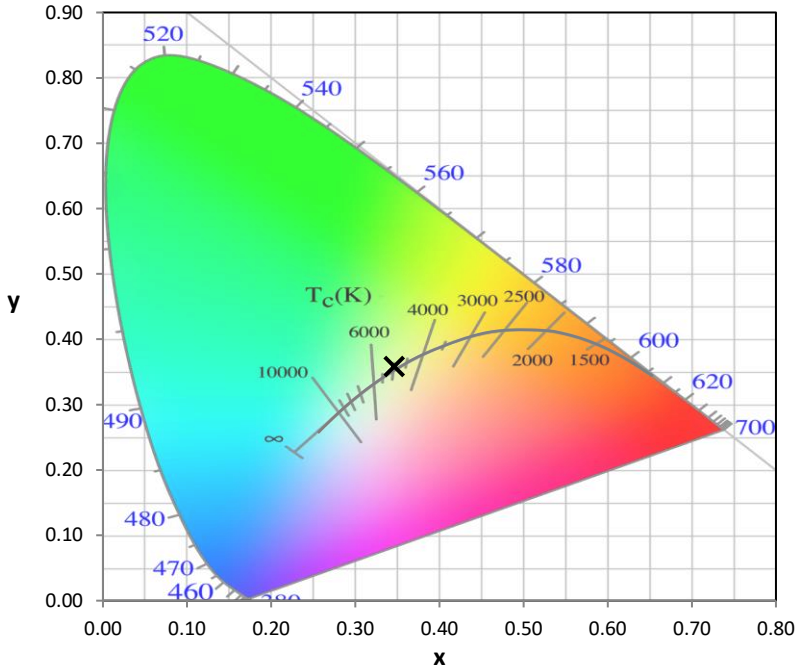
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

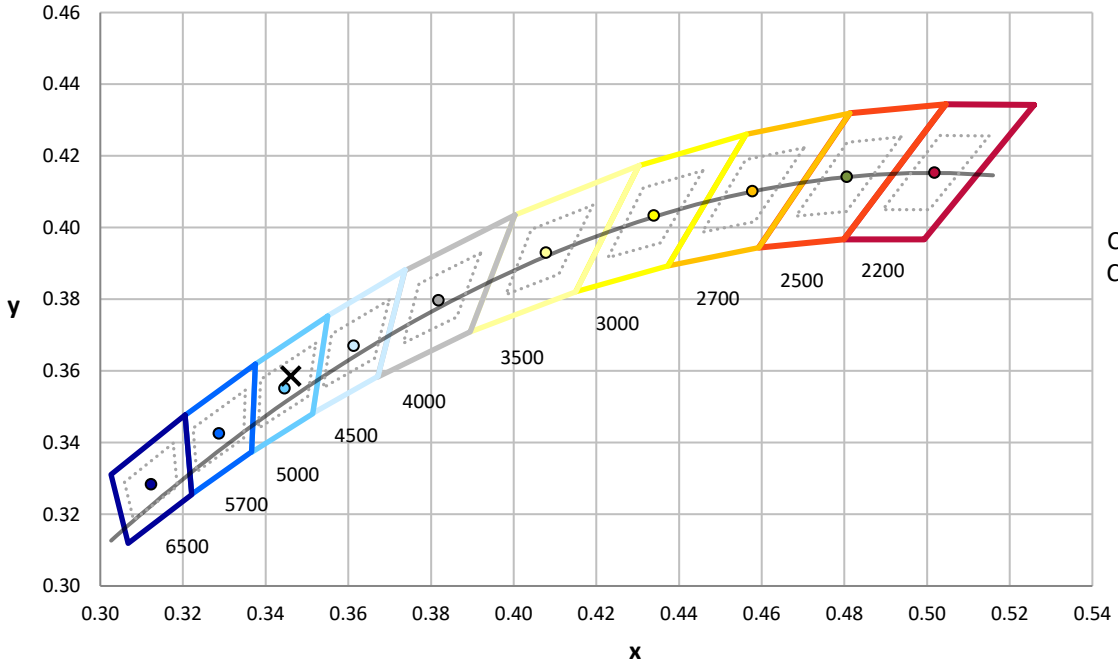
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

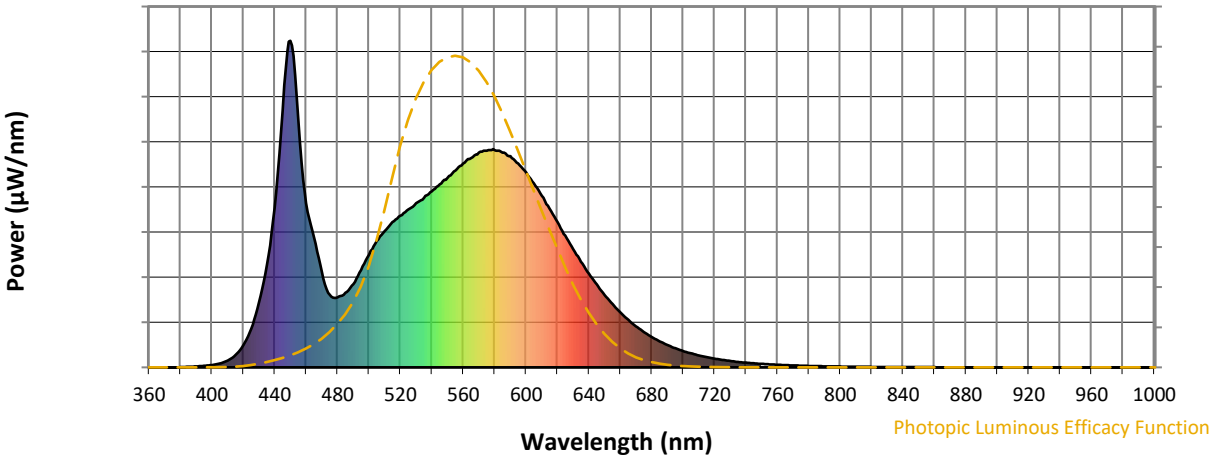


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

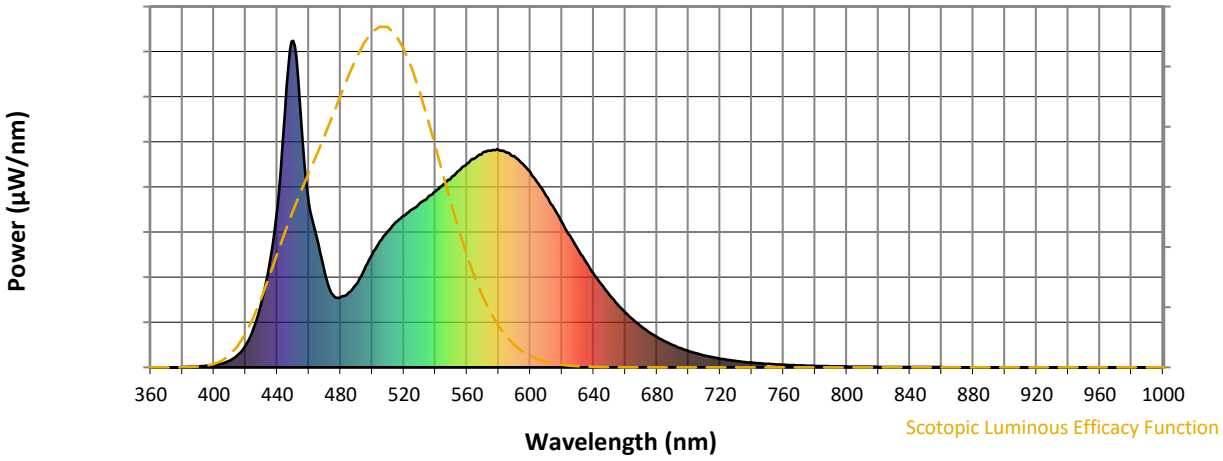


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

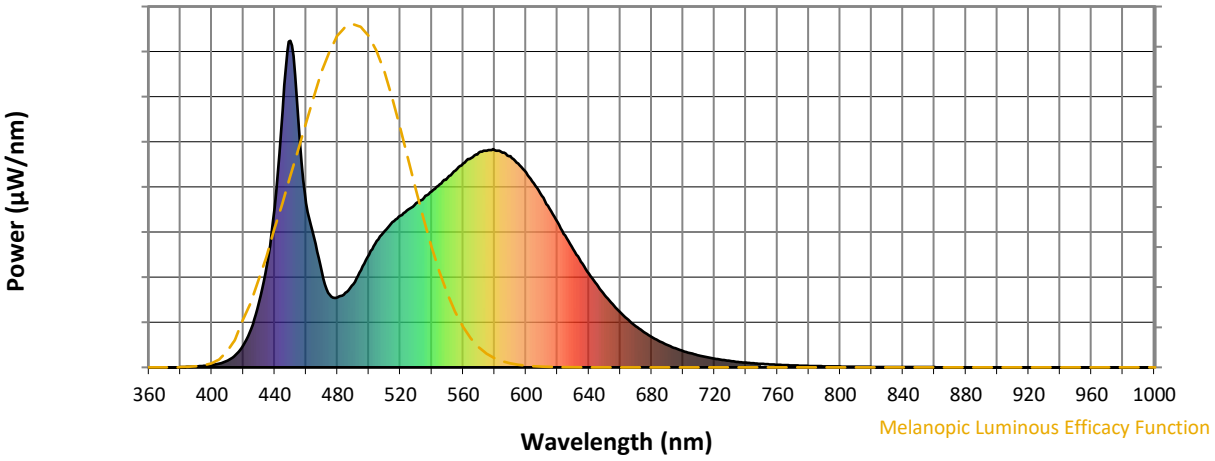


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
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485	228	NR	615	486	NR	745	12	NR	875	0	NR			

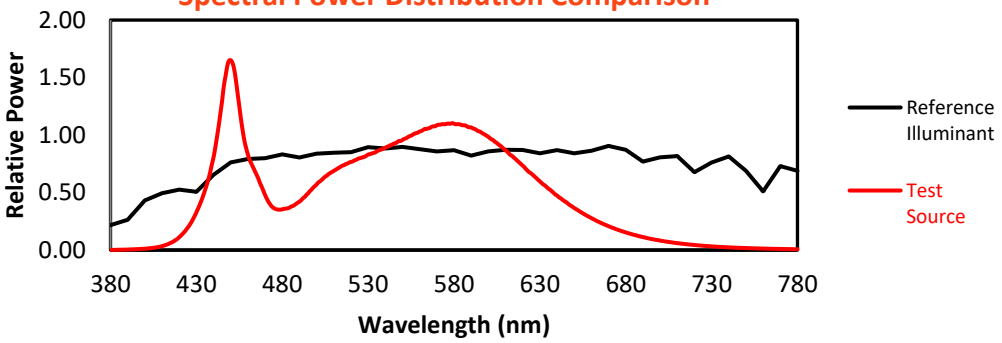
REPORT NUMBER: SP1-2501-332-5

TM-30-18

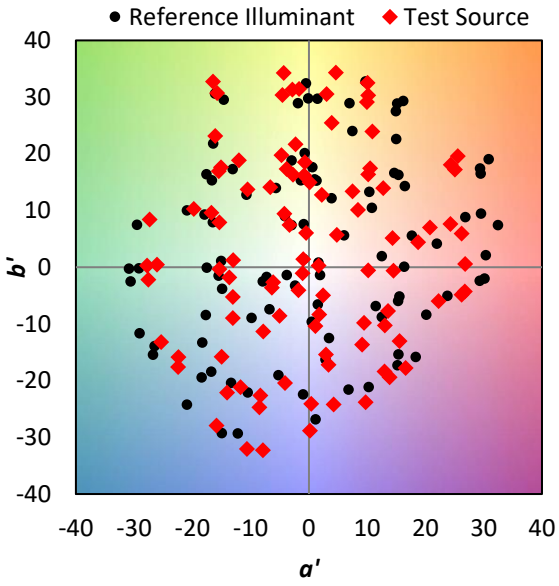
Summary

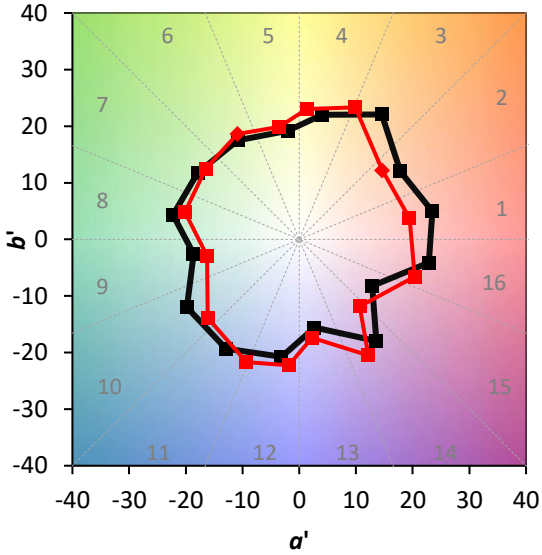
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

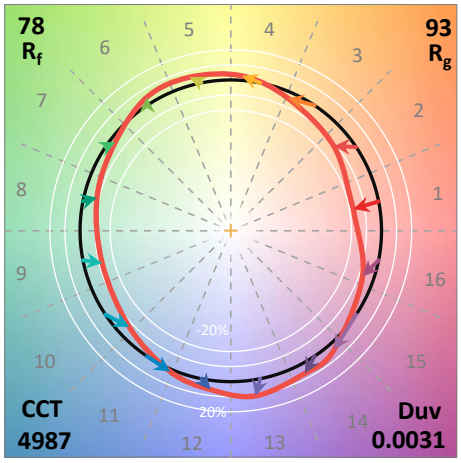
Spectral Power Distribution Comparison

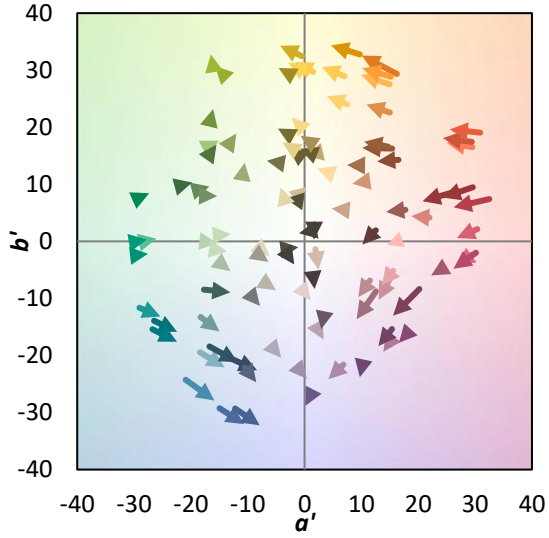


Color Vector Graphics







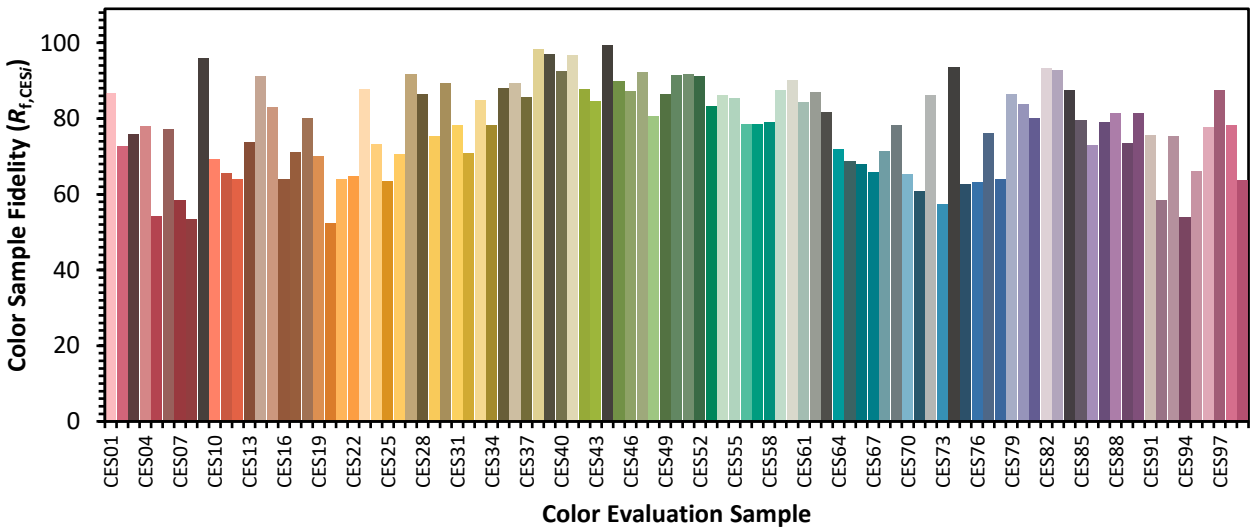


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

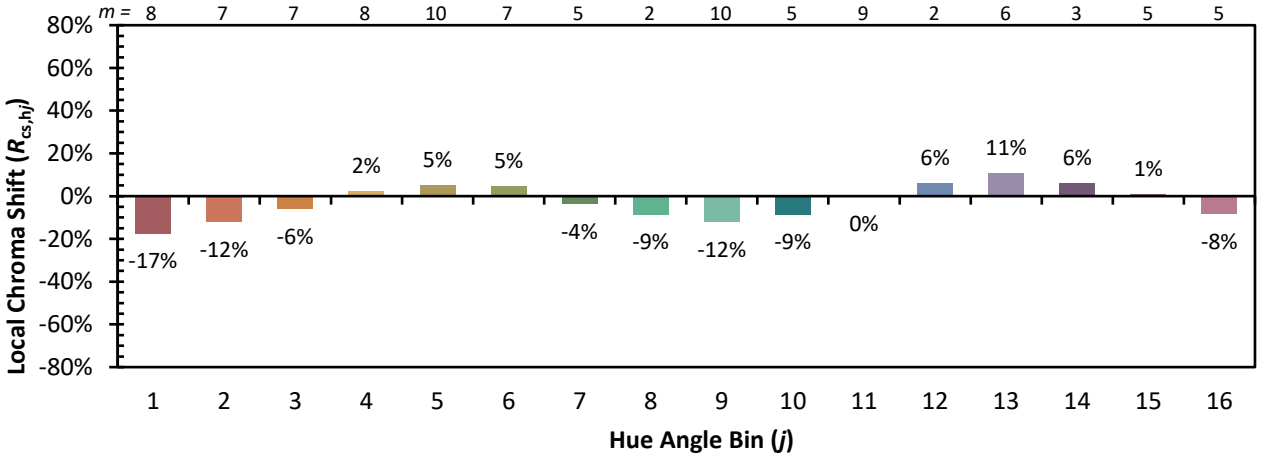
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

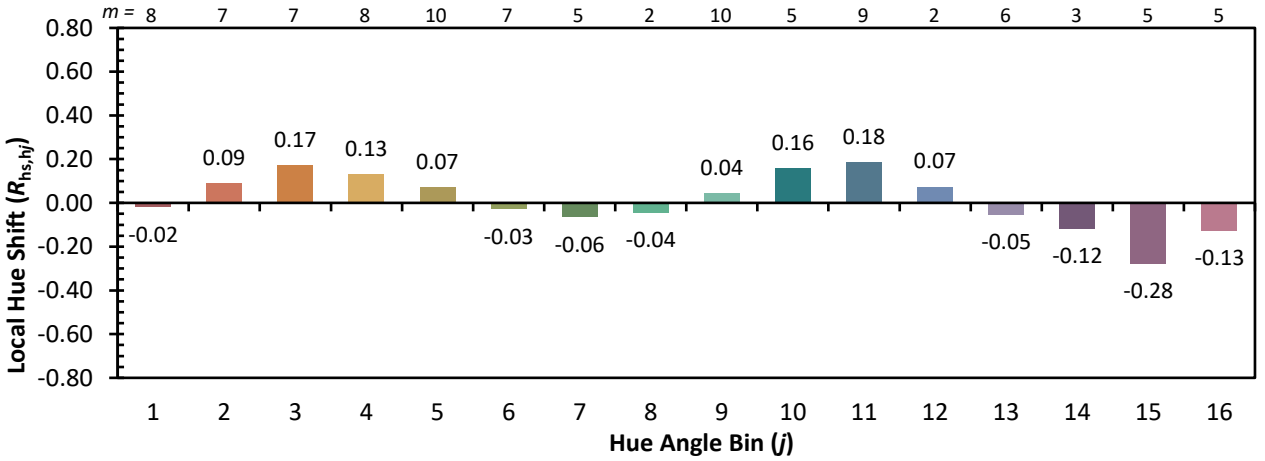


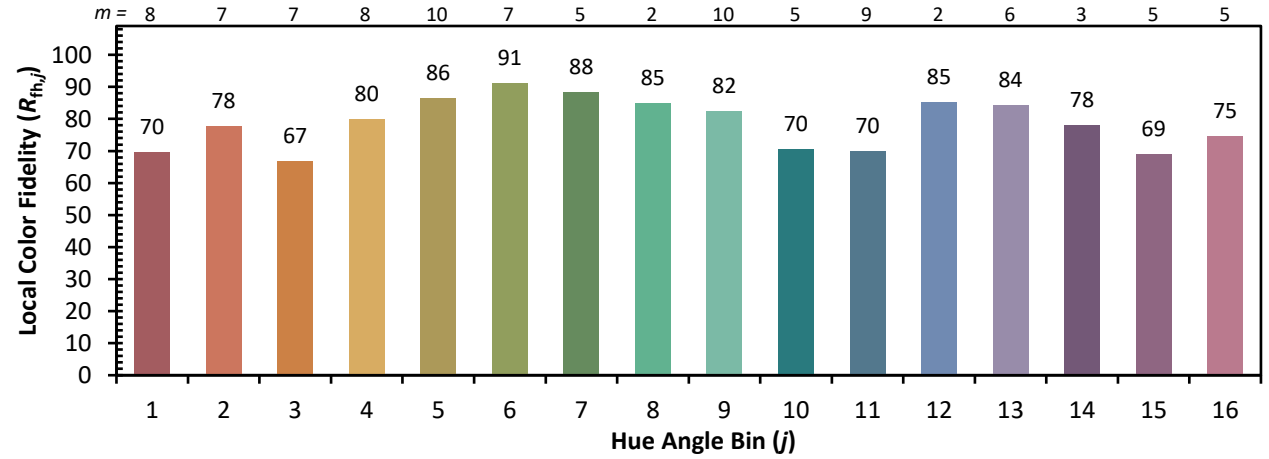
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Color Rendition by Hue-Angle Bin



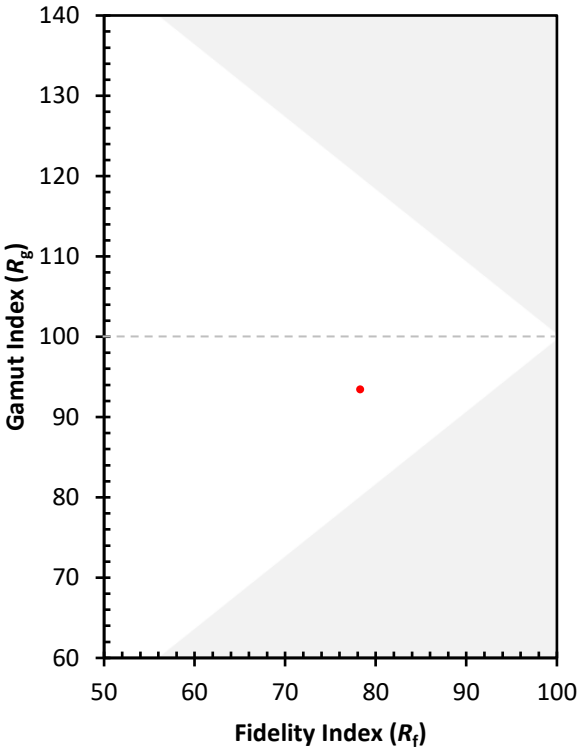


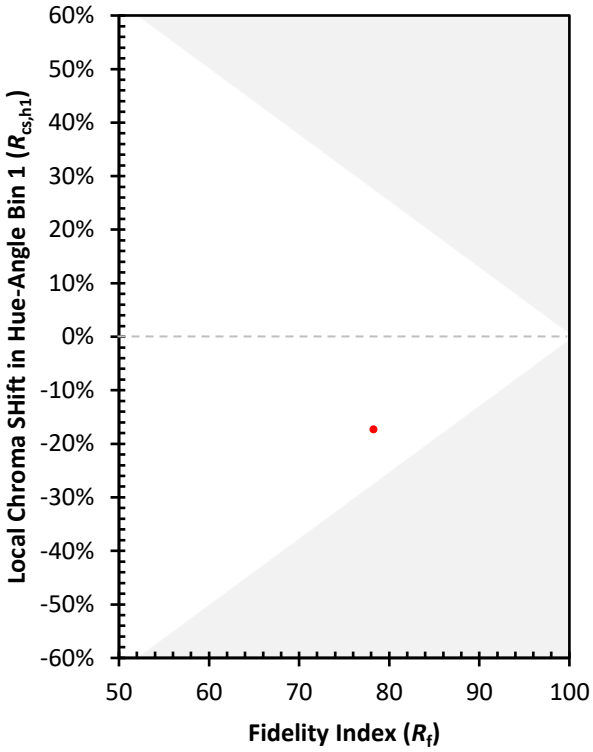


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Measure Comparisons





(END OF REPORT)