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: P981454

Luminaire Tested: **FFX-CLB-70-722-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981454
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-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:	8907.6 lumens
Efficiency:	N/A
Efficacy:	125.1 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):	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

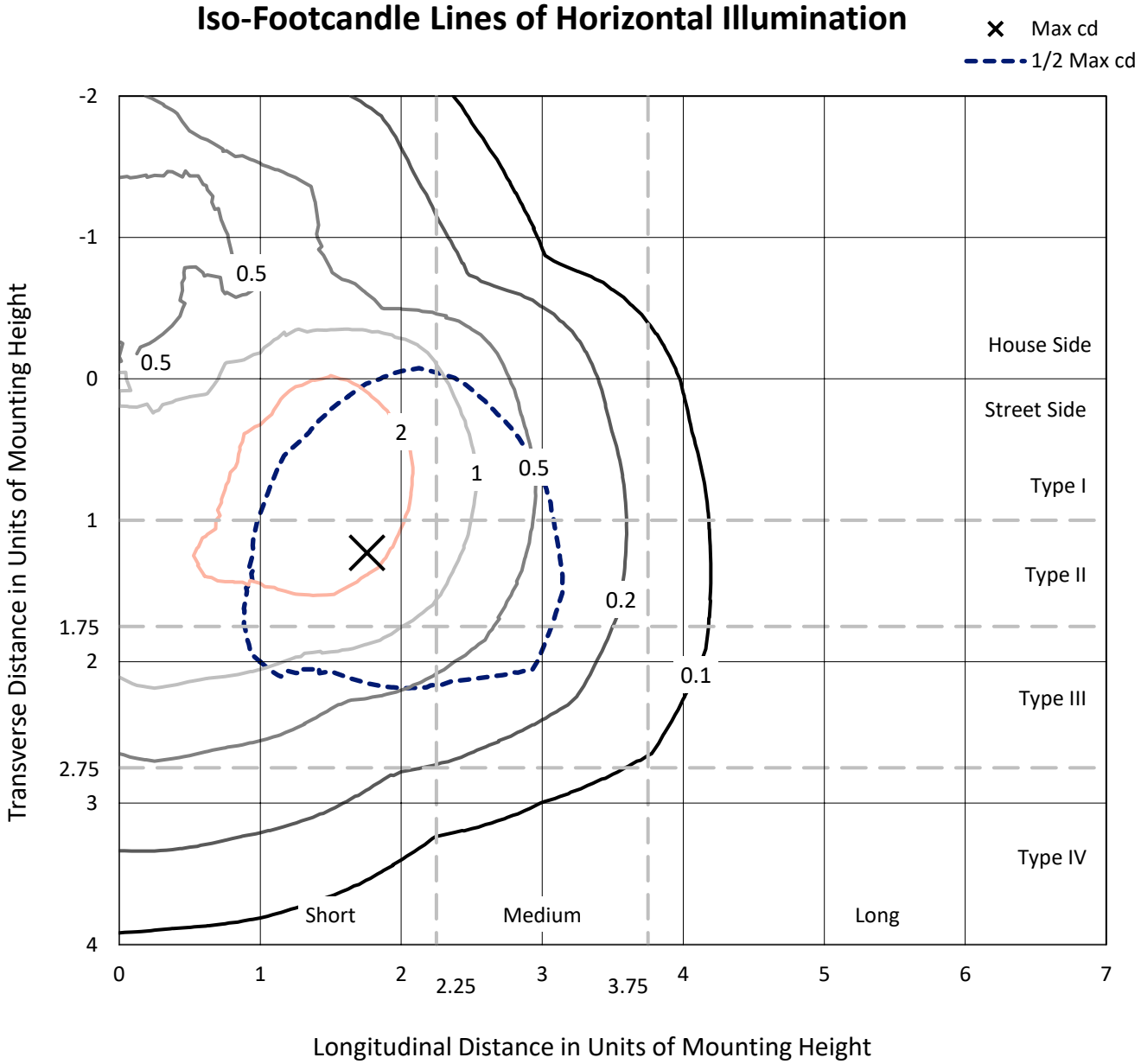


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Iso-Footcandle Lines of Horizontal Illumination



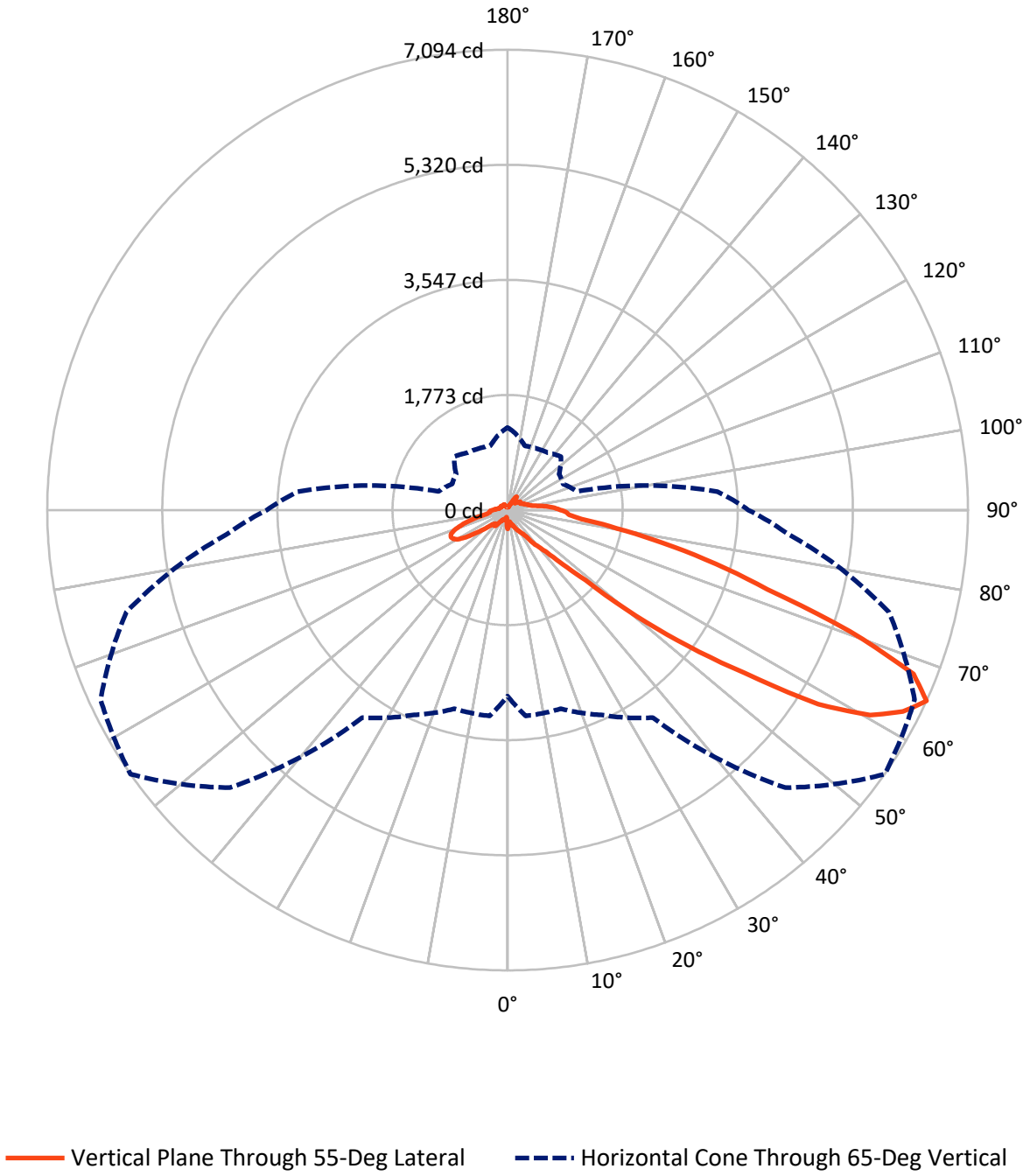
Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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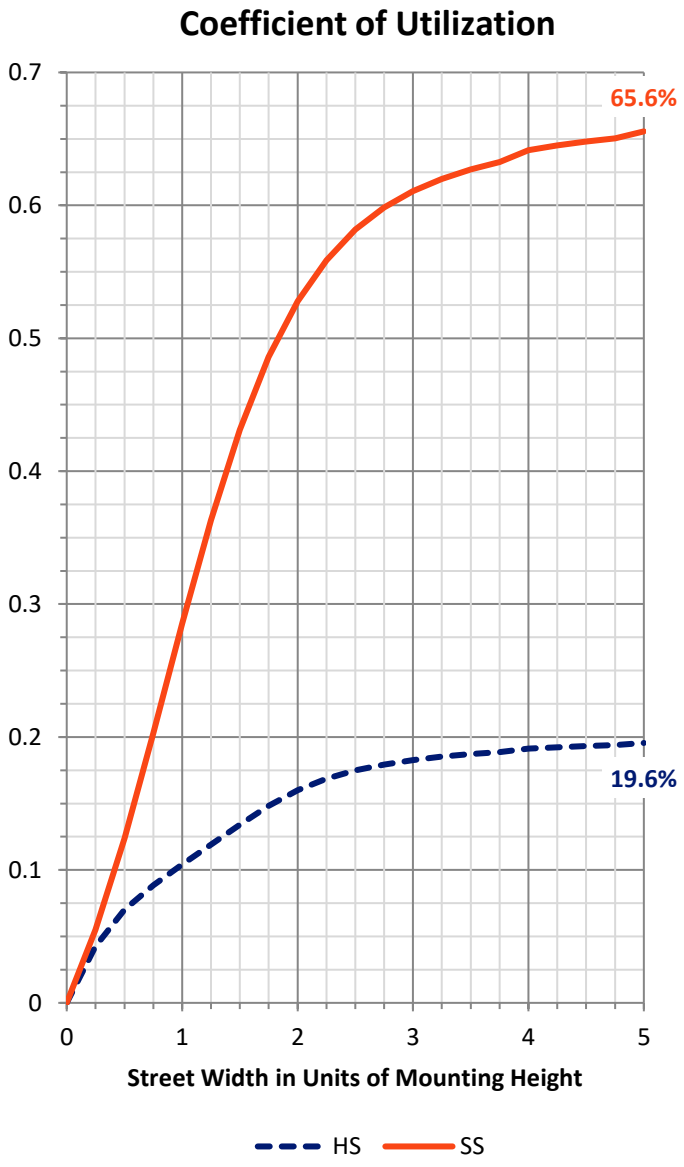
REPORT NUMBER: P981454
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.6	353.1	2162.7
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	6038.3	706.6	6744.9
	% Fixture	67.8	7.9	75.7
Total	Lumens	7847.9	1059.8	8907.6
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	0.2
10°-20°	54.4	0.6
20°-30°	111.4	1.3
30°-40°	241.5	2.7
40°-50°	586.0	6.6
50°-60°	1829.5	20.5
60°-70°	2907.1	32.6
70°-80°	1549.2	17.4
80°-90°	552.0	6.2
90°-100°	335.8	3.8
100°-110°	198.8	2.2
110°-120°	155.2	1.7
120°-130°	129.5	1.5
130°-140°	94.6	1.1
140°-150°	87.0	1.0
150°-160°	39.3	0.4
160°-170°	15.0	0.2
170°-180°	4.4	0.0
0°-90°	7847.9	88.1
0°-180°	8907.6	100.0



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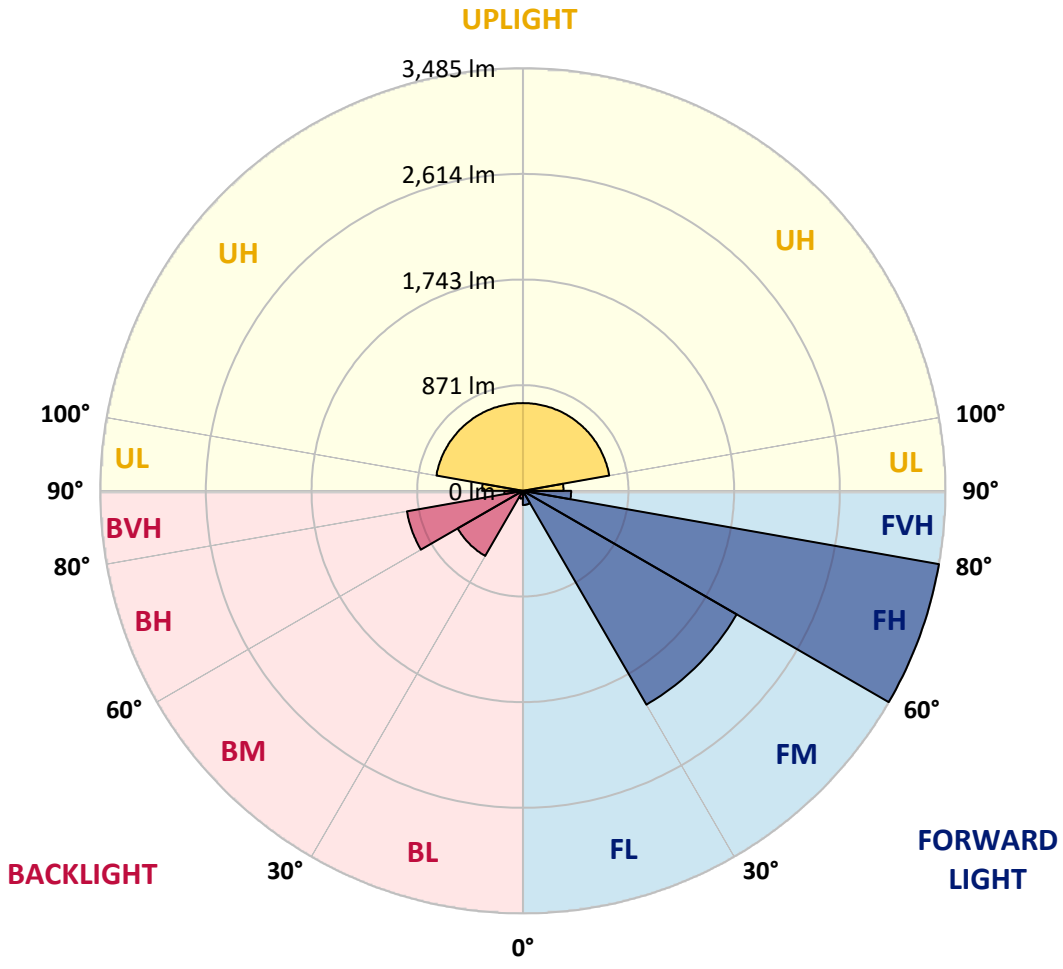
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	117.7	1.3			
FM	(30°-60°)	2036.8	22.9			
FH	(60°-80°)	3485.5	39.1			G2/5000
FVH	(80°-90°)	398.3	4.5			G3/500
BL	(0°-30°)	64.8	0.7	B0/110		
BM	(30°-60°)	620.2	7.0	B1/1000		
BH	(60°-80°)	970.8	10.9	B2/1000		G2/1000
BVH	(80°-90°)	153.7	1.7			G2/225
UL	(90°-100°)	335.8	3.8		U3/500	
UH	(100°-180°)	723.9	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°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	172.6	173.8	193.1	208.2	226.9	221.4	221.4	262.5	289.6	329.4	325.8
5°	184.6	176.8	180.4	193.7	219.0	231.1	217.8	172.6	143.0	155.1	169.5
7.5°	202.1	200.3	196.1	183.4	173.8	199.7	235.9	210.0	158.7	133.3	127.9
10°	207.0	207.6	206.3	207.6	212.4	200.9	180.4	164.1	159.3	156.9	155.1
12.5°	250.4	249.8	252.2	249.2	237.7	223.8	228.1	216.0	192.5	176.2	172.0
15°	292.0	290.8	290.2	278.8	260.0	237.7	226.9	232.3	217.2	198.5	190.1
17.5°	308.9	308.9	296.9	280.6	269.1	253.4	245.0	238.9	227.5	215.4	205.1
20°	302.3	301.7	289.6	283.0	284.2	276.9	269.7	260.7	249.2	229.9	217.2
22.5°	298.7	298.7	294.4	292.6	302.9	300.5	298.7	287.2	272.1	243.8	227.5
25°	322.2	320.4	315.0	315.0	324.6	332.5	335.5	326.4	301.7	258.8	243.8
27.5°	345.1	344.5	337.3	339.1	345.1	360.8	365.6	361.4	327.6	271.5	258.2
30°	372.9	368.7	362.6	373.5	372.3	394.0	400.6	405.5	362.6	297.5	281.8
32.5°	402.4	400.0	395.2	409.1	413.9	433.8	439.2	463.4	410.3	343.9	327.6
35°	452.5	450.7	463.4	490.5	489.9	527.3	512.9	549.1	499.0	427.8	411.5
37.5°	678.2	667.9	653.4	627.5	625.7	677.6	661.3	689.6	619.0	518.9	500.8
40°	705.9	704.1	697.5	667.9	651.0	739.7	750.6	834.4	718.0	603.4	568.4
42.5°	689.6	692.1	780.7	799.5	765.1	874.3	892.4	1039.6	829.6	731.9	667.9
45°	831.4	835.1	864.0	877.3	874.9	1149.4	1194.1	1374.5	1025.1	912.3	794.0
47.5°	952.1	939.4	991.9	1093.3	1162.7	1472.8	1616.4	1893.3	1377.5	1210.9	991.9
50°	1308.1	1305.1	1431.8	1542.8	1611.6	2119.0	2561.3	2865.4	2018.8	1755.8	1384.1
52.5°	1549.4	1652.0	1773.3	2030.3	2092.5	2883.5	3482.0	3725.7	2789.9	2306.0	1889.7
55°	1794.4	1942.2	2078.0	2478.0	2684.3	3746.3	4427.5	4494.4	3664.2	2803.8	2384.5
57.5°	2249.9	2499.1	2586.6	2905.8	3207.5	4740.6	5643.8	5572.6	4565.6	3381.2	2937.2
60°	2662.0	2961.9	2936.6	3249.1	3637.1	5550.9	6416.1	6341.3	5390.4	3894.1	3361.9
62.5°	2800.2	3102.5	3068.1	3408.4	3904.3	5985.3	6837.3	6709.4	5930.4	4222.9	3597.2
65°	2864.8	3185.7	3168.8	3486.2	3904.3	6048.1	7093.7	6918.7	6081.3	4349.6	3710.7
67.5°	2808.0	3117.6	3128.4	3410.2	3674.5	5595.0	6743.8	6506.0	5703.6	4045.5	3507.9
70°	2454.5	2671.1	2643.9	2899.1	2925.1	4478.7	5596.8	5337.9	4633.8	3373.4	2902.8
72.5°	2027.9	2080.4	2058.1	2219.2	2249.3	3280.5	4183.1	4036.5	3460.3	2510.0	2218.0
75°	1617.0	1608.6	1654.4	1691.8	1660.4	2408.0	3312.4	3145.9	2560.1	1890.3	1706.9
77.5°	1118.6	1054.1	1174.7	1186.2	1136.7	1601.3	2443.6	2380.3	1834.8	1393.2	1258.0
80°	628.7	635.9	722.2	773.5	755.4	1019.1	1700.3	1658.6	1253.2	973.8	865.2
82.5°	485.1	506.8	547.2	585.9	560.5	779.5	1150.0	1153.0	916.5	711.4	649.8
85°	533.4	544.8	550.3	551.5	531.6	724.6	953.3	940.6	778.3	595.5	576.2
87.5°	520.1	532.2	534.0	534.6	517.1	690.2	902.6	882.7	742.1	572.0	542.4
90°	445.9	466.4	468.8	484.5	464.0	616.6	794.6	774.7	669.1	515.9	488.1
92.5°	383.1	394.0	405.5	424.2	402.4	537.0	711.4	686.6	599.1	466.4	428.4
95°	350.6	356.6	366.2	373.5	348.1	456.1	594.9	569.0	486.3	375.3	341.5
97.5°	281.8	287.2	291.4	300.5	283.0	361.4	461.6	437.4	381.3	298.7	273.3
100°	240.7	244.4	249.2	255.2	240.7	302.9	378.9	368.0	317.4	252.2	235.9
102.5°	220.2	223.2	231.7	231.7	222.6	276.9	338.5	330.0	285.4	228.7	217.8
105°	212.4	213.0	220.2	217.2	211.2	258.2	315.6	304.7	267.3	217.2	204.5
107.5°	202.1	202.7	211.8	207.0	202.1	239.5	286.0	281.2	247.4	202.7	191.9
110°	191.9	193.7	205.1	200.9	197.9	225.1	267.9	258.8	236.5	196.1	187.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	184.0	185.2	196.1	193.1	190.7	215.4	*248.6*	248.6	231.1	196.1	184.0
115°	177.4	179.8	188.9	182.8	178.6	202.7	*229.3*	230.5	216.0	187.0	175.0
117.5°	165.9	171.4	176.2	178.6	173.8	194.3	*217.8*	216.6	208.8	180.4	172.0
120°	188.9	184.6	188.2	192.5	184.6	200.9	*220.8*	220.8	213.0	177.4	170.1
122.5°	197.3	191.3	194.9	190.7	190.1	211.2	*235.9*	237.7	221.4	182.8	164.7
125°	175.0	172.6	168.3	167.1	172.0	191.9	*214.2*	222.0	204.5	175.0	153.9
127.5°	149.6	146.6	141.2	144.2	153.3	173.2	*184.6*	188.9	181.6	162.3	146.6
130°	138.2	137.6	141.8	147.2	154.5	171.4	*175.0*	181.0	181.0	158.1	149.0
132.5°	126.1	126.7	140.0	158.7	164.1	167.7	*159.9*	171.4	176.8	161.1	150.8
135°	124.3	124.9	132.1	147.2	147.8	150.2	*150.8*	165.3	168.9	153.9	142.4
137.5°	135.8	135.8	130.3	133.3	140.0	158.1	*164.1*	175.6	172.6	145.4	128.5
140°	149.6	146.6	129.7	130.3	141.8	164.1	*172.0*	179.2	175.6	142.4	122.5
142.5°	123.7	124.9	127.9	139.4	152.7	203.3	*196.7*	214.8	207.6	150.8	119.5
145°	193.1	193.7	190.1	194.9	203.3	270.3	*249.8*	278.8	287.2	197.3	141.8
147.5°	211.2	213.6	207.0	202.7	226.9	247.4	*224.5*	248.6	264.9	207.0	152.0
150°	164.7	164.1	159.9	165.9	182.2	181.0	*168.9*	177.4	184.0	158.1	130.3
152.5°	117.1	115.2	112.8	113.4	132.7	127.9	*124.3*	131.5	131.5	121.3	104.4
155°	97.1	97.1	95.9	99.0	109.8	101.4	*98.3*	97.1	95.9	92.9	86.3
157.5°	82.1	83.9	82.1	85.7	92.9	85.1	*83.3*	81.5	82.1	82.1	80.2
160°	68.2	68.2	67.0	73.0	75.4	69.4	*66.4*	65.2	65.2	68.8	68.8
162.5°	57.3	57.3	57.9	60.3	62.1	57.9	*56.1*	56.1	57.9	63.4	63.4
165°	49.5	49.5	50.1	51.9	53.1	50.7	*49.5*	50.1	54.9	59.7	59.7
167.5°	45.3	45.3	45.3	45.9	46.5	45.3	*45.3*	47.7	51.9	54.9	54.9
170°	42.8	42.8	42.2	42.8	42.8	42.8	*45.3*	47.7	49.5	49.5	49.5
172.5°	43.4	43.4	42.8	43.4	43.4	42.8	*45.9*	48.9	47.7	47.1	47.1
175°	44.6	44.6	44.6	45.3	45.3	44.0	*43.4*	44.6	45.9	45.9	45.3
177.5°	44.6	44.6	44.0	44.6	44.0	42.8	*42.2*	41.6	41.6	41.0	41.0
180°	41.6	41.6	41.6	41.6	41.6	41.6	*41.6*	41.6	41.6	41.6	41.6

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	295.0	254.6	224.5	248.0	299.9	325.8	299.9	228.1	160.5	140.6
5°	176.8	172.0	155.1	151.4	158.1	152.0	168.9	159.9	126.7	127.9
7.5°	132.1	159.9	154.5	110.4	103.2	96.5	102.0	116.4	120.1	112.2
10°	153.3	138.2	120.7	112.2	122.5	132.1	125.5	109.2	94.1	89.9
12.5°	168.9	167.7	169.5	152.0	124.9	115.2	111.6	120.1	146.0	152.0
15°	181.6	167.7	155.1	151.4	133.3	123.7	118.9	116.4	111.6	108.0
17.5°	194.3	171.4	157.5	143.6	134.5	125.5	115.2	109.8	109.2	109.8
20°	202.7	181.6	165.3	149.6	138.2	126.1	115.8	111.0	111.0	111.0
22.5°	213.0	192.5	175.0	155.1	141.8	128.5	120.1	115.2	114.6	114.6
25°	229.9	207.0	186.4	164.7	150.2	138.2	126.7	120.7	118.9	118.3
27.5°	249.2	223.8	199.1	176.8	161.7	148.4	133.3	124.3	121.9	121.3
30°	273.9	245.0	213.6	190.1	171.4	158.7	140.6	129.7	124.9	124.3
32.5°	314.4	276.3	235.3	209.4	187.0	170.1	150.2	137.0	129.1	127.3
35°	392.2	345.7	284.2	246.8	211.2	184.6	158.7	141.2	133.3	132.1
37.5°	479.1	408.5	348.7	305.3	261.9	217.2	172.0	147.8	138.2	136.4
40°	516.5	449.5	386.2	318.0	308.3	273.3	211.2	164.1	144.8	141.8
42.5°	598.5	503.2	417.5	281.2	303.5	301.7	260.7	200.9	162.9	155.7
45°	704.7	572.6	464.6	300.5	305.9	295.0	267.3	232.3	197.9	190.1
47.5°	877.9	640.2	479.7	337.9	343.9	318.0	280.0	245.0	220.2	217.2
50°	1253.8	838.7	535.2	409.1	428.4	368.7	321.6	291.4	261.9	256.4
52.5°	1704.5	993.7	592.5	510.4	579.8	494.2	423.0	367.4	365.6	358.4
55°	2179.3	1053.5	668.5	622.1	730.1	655.9	586.5	535.8	561.7	564.1
57.5°	2712.7	1117.4	778.3	768.1	912.3	794.0	735.5	749.4	933.4	1005.2
60°	3068.1	1169.9	873.1	888.7	1078.8	963.6	919.5	950.3	1262.8	1393.8
62.5°	3226.2	1143.4	919.5	946.7	1150.6	1066.7	1059.5	1075.8	1340.7	1463.1
65°	*3247.9*	*1104.1*	*944.9*	*968.4*	*1163.3*	*1077.6*	*1046.8*	*1023.9*	*1200.1*	*1271.9*
67.5°	2981.2	1020.9	925.0	949.7	1106.0	1003.4	926.8	874.9	976.8	984.1
70°	2426.1	911.7	857.4	866.4	944.9	839.9	767.5	722.8	746.4	736.7
72.5°	1881.3	803.7	763.9	742.7	766.3	676.4	590.7	567.8	590.1	579.8
75°	1429.4	718.0	674.0	602.8	641.4	520.7	425.4	404.9	414.5	400.6
77.5°	1051.1	578.6	527.3	445.9	499.0	377.7	287.2	266.1	269.7	256.4
80°	766.9	427.8	385.5	319.8	359.6	268.5	207.6	203.9	203.3	194.9
82.5°	592.5	339.7	308.3	275.1	281.8	237.1	196.7	190.7	190.7	178.0
85°	549.7	328.8	296.9	273.3	275.1	229.9	187.0	183.4	185.2	172.0
87.5°	513.5	321.6	295.6	267.3	253.4	208.2	168.3	172.6	173.8	162.3
90°	440.5	286.0	262.5	235.3	219.0	176.8	150.8	158.7	159.9	149.6
92.5°	386.2	245.6	225.7	204.5	197.3	165.9	144.8	150.8	150.8	141.8
95°	307.7	200.9	191.9	181.6	179.8	155.1	135.2	138.2	137.0	129.1
97.5°	250.4	174.4	166.5	156.9	150.8	132.7	118.9	121.9	122.5	117.1
100°	220.2	161.1	150.2	139.4	133.3	119.5	108.6	114.0	117.7	112.8
102.5°	205.7	153.9	141.8	130.3	125.5	112.8	102.6	107.4	112.2	108.0
105°	195.5	148.4	135.8	125.5	119.5	106.8	96.5	97.7	103.8	101.4
107.5°	182.2	148.4	132.1	121.9	114.6	103.2	91.1	89.9	93.5	92.9
110°	177.4	148.4	129.7	119.5	111.6	101.4	90.5	85.7	87.5	87.5

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

Scaled Data Report

REPORT NUMBER: P981454
CATALOG NUMBER: FFX-CLB-70-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	173.2	147.2	127.3	115.2	108.6	100.2	89.3	82.1	83.9	85.1
115°	163.5	135.8	120.1	107.4	100.8	91.7	84.5	79.0	79.6	80.9
117.5°	158.1	125.5	116.4	105.0	100.2	94.7	88.1	77.8	77.8	79.0
120°	158.1	123.7	119.5	115.2	112.8	103.8	92.9	77.8	76.0	76.0
122.5°	155.7	137.6	130.3	120.7	114.0	102.0	88.7	76.0	74.8	74.8
125°	143.0	131.5	120.1	108.6	100.8	91.1	83.3	76.6	74.2	74.2
127.5°	136.4	118.3	107.4	98.3	92.9	88.1	83.3	76.6	73.6	73.0
130°	138.2	119.5	105.6	98.3	94.1	89.3	83.9	75.4	70.6	70.0
132.5°	139.4	115.2	102.0	95.9	92.9	89.3	82.1	71.2	65.8	65.8
135°	126.1	103.8	97.7	93.5	91.7	88.7	77.8	67.6	63.4	62.7
137.5°	114.6	100.8	96.5	92.3	89.3	85.1	76.6	66.4	60.9	60.3
140°	109.8	98.3	92.3	84.5	80.9	72.4	66.4	60.3	58.5	57.9
142.5°	104.4	92.3	85.1	78.4	76.6	73.6	70.0	60.3	54.3	54.3
145°	124.9	111.0	102.6	95.9	87.5	81.5	70.0	57.9	50.1	48.9
147.5°	130.9	118.3	109.8	100.8	85.1	71.8	59.1	50.7	47.7	46.5
150°	114.6	103.8	94.7	85.1	71.2	62.1	53.7	48.3	47.1	47.1
152.5°	91.1	85.1	75.4	68.8	59.7	54.3	49.5	46.5	45.3	45.3
155°	75.4	70.6	65.2	59.7	54.9	51.3	48.3	45.9	44.6	44.6
157.5°	73.0	65.8	60.9	56.1	53.1	49.5	47.1	44.6	44.0	43.4
160°	66.4	57.9	53.7	50.7	50.1	48.9	47.1	45.3	44.6	44.0
162.5°	61.5	53.1	50.1	48.3	50.1	51.3	50.1	47.7	45.9	45.3
165°	57.9	50.1	47.7	47.7	51.3	53.1	50.1	47.7	47.7	47.1
167.5°	53.7	51.3	48.3	47.7	50.7	54.3	54.9	50.7	48.9	48.3
170°	50.1	50.7	50.7	48.9	49.5	52.5	53.7	52.5	50.1	49.5
172.5°	47.7	48.9	51.3	50.1	50.1	51.3	52.5	51.3	49.5	48.9
175°	45.3	45.9	44.6	45.3	47.1	48.9	48.3	47.7	47.1	47.1
177.5°	41.0	41.0	41.6	41.6	42.2	44.0	44.6	44.6	45.9	45.9
180°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6

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

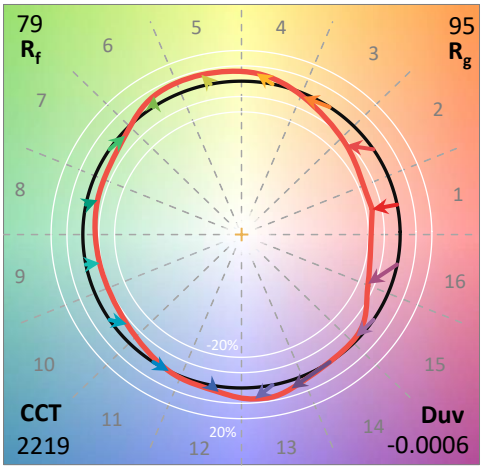
Test Information

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

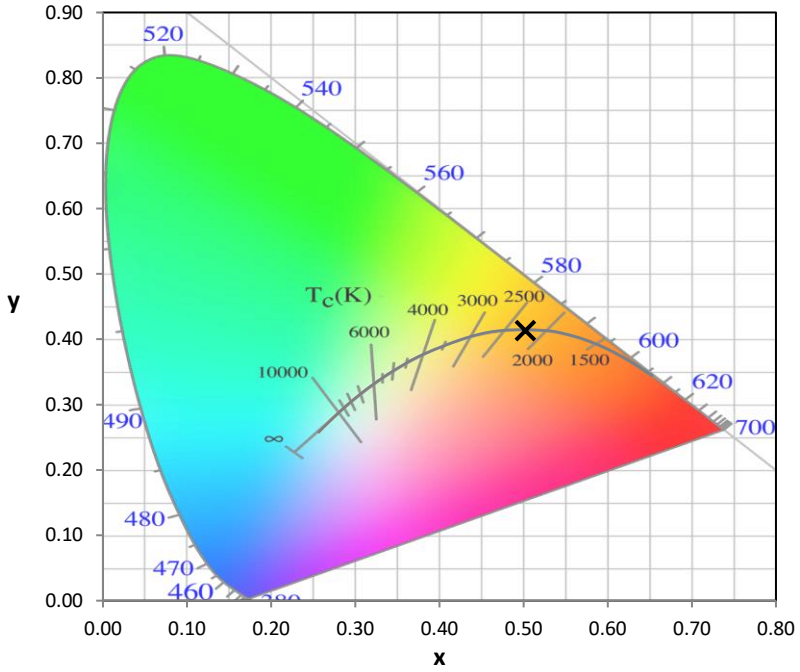
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

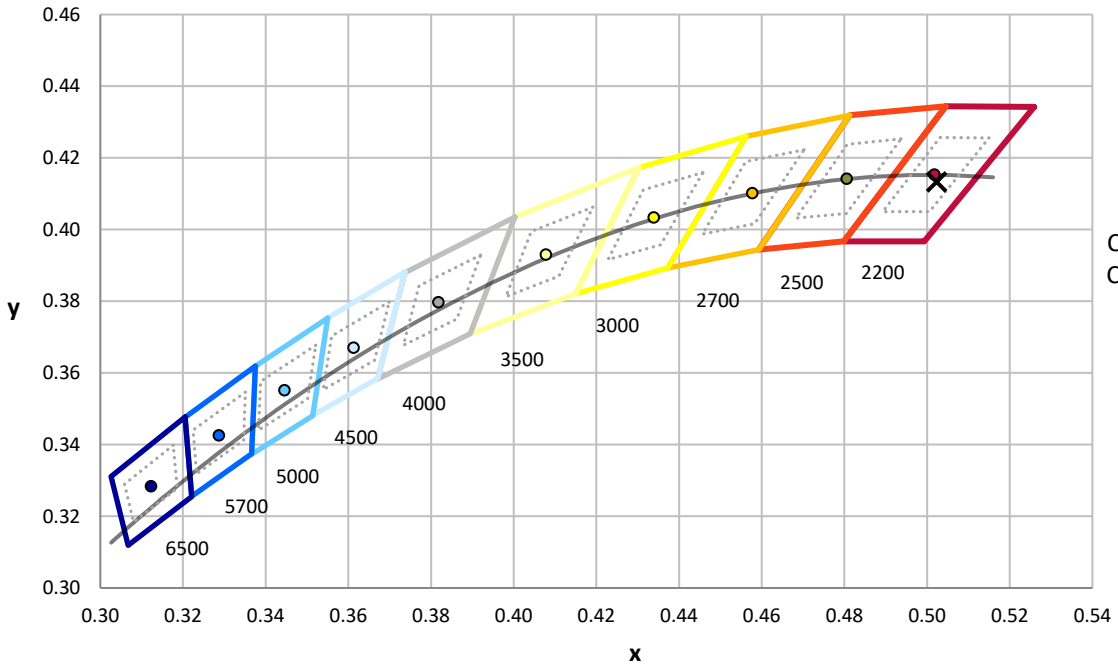
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

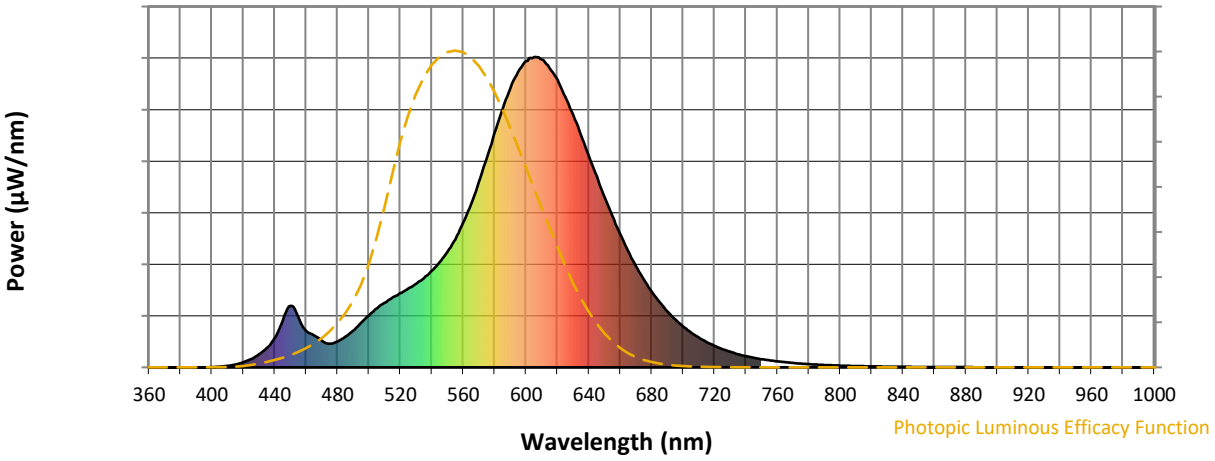


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

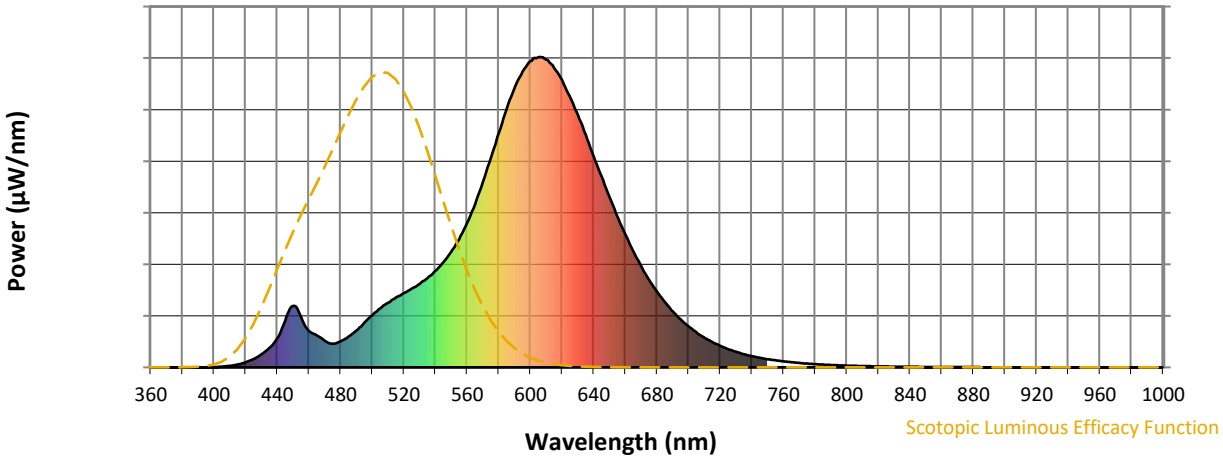


Photopic Lumens: NR

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

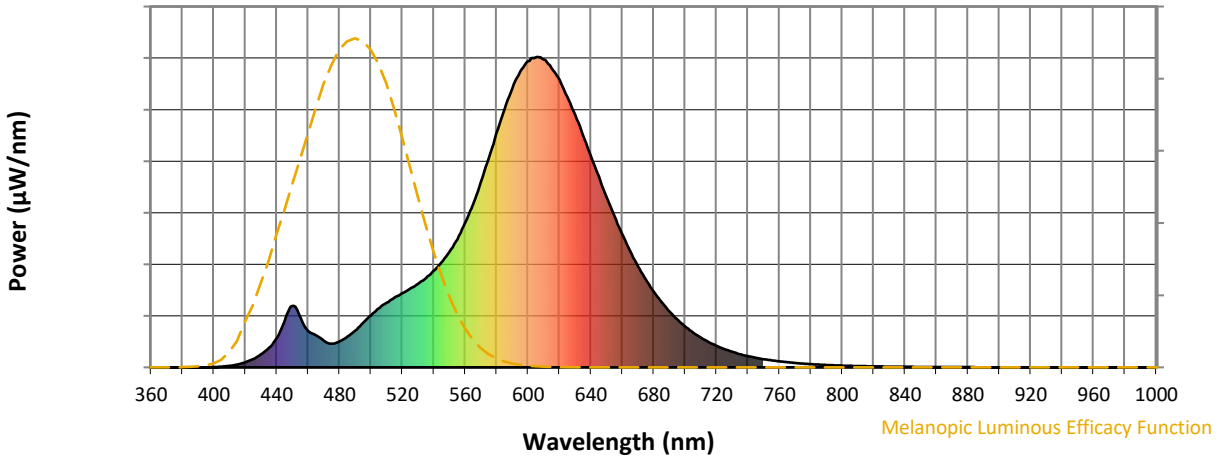


Scotopic Lumens: NR **S/P: 0.94**

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			

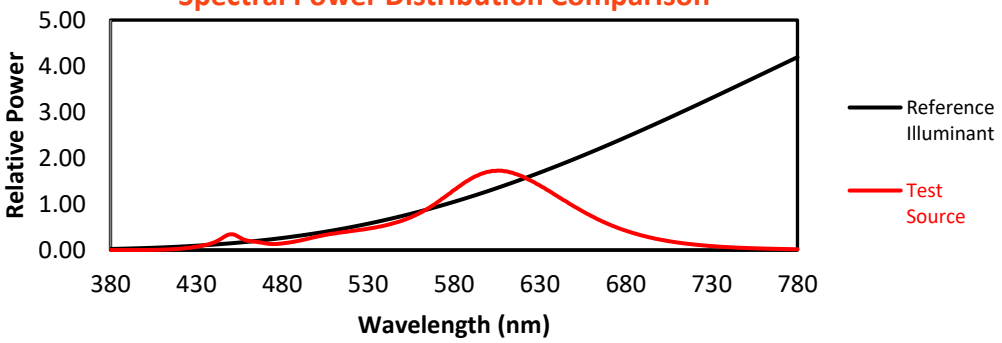
REPORT NUMBER: SP1-2501-332-2

TM-30-18

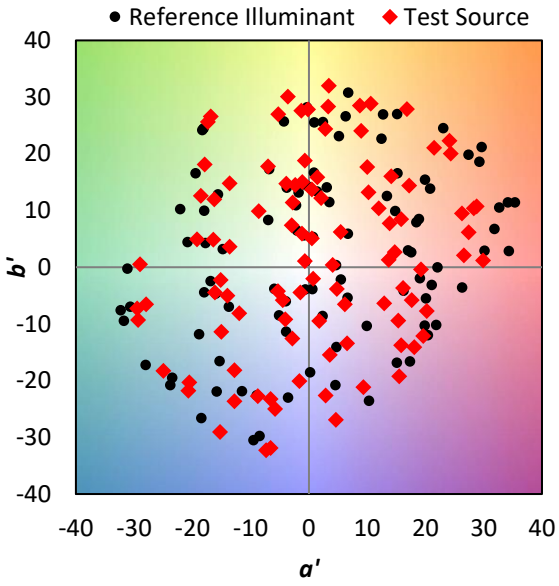
Summary

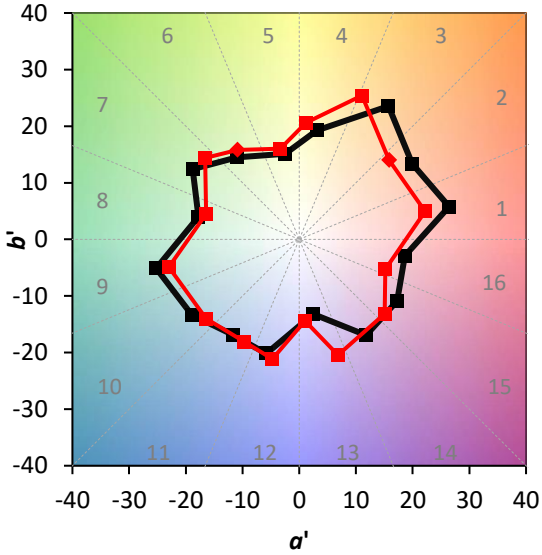
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

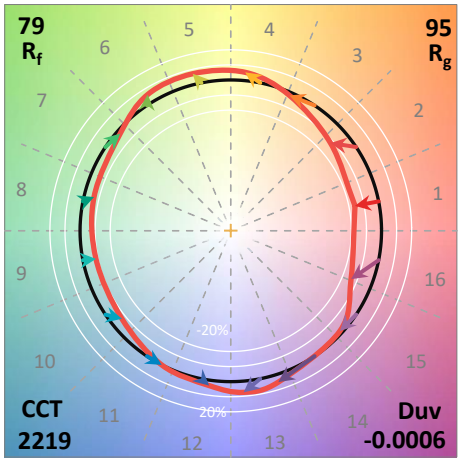
Spectral Power Distribution Comparison

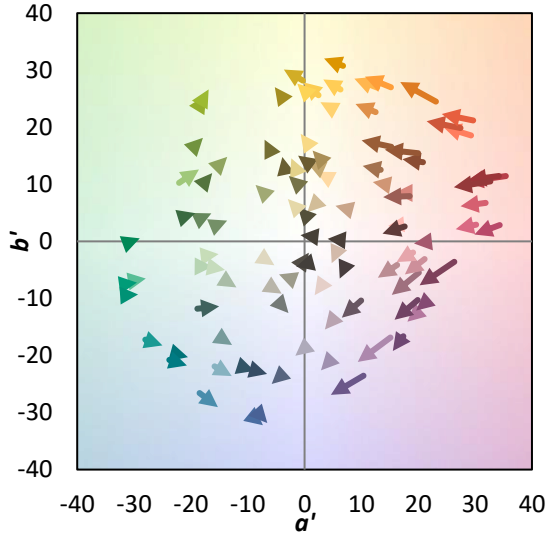


Color Vector Graphics







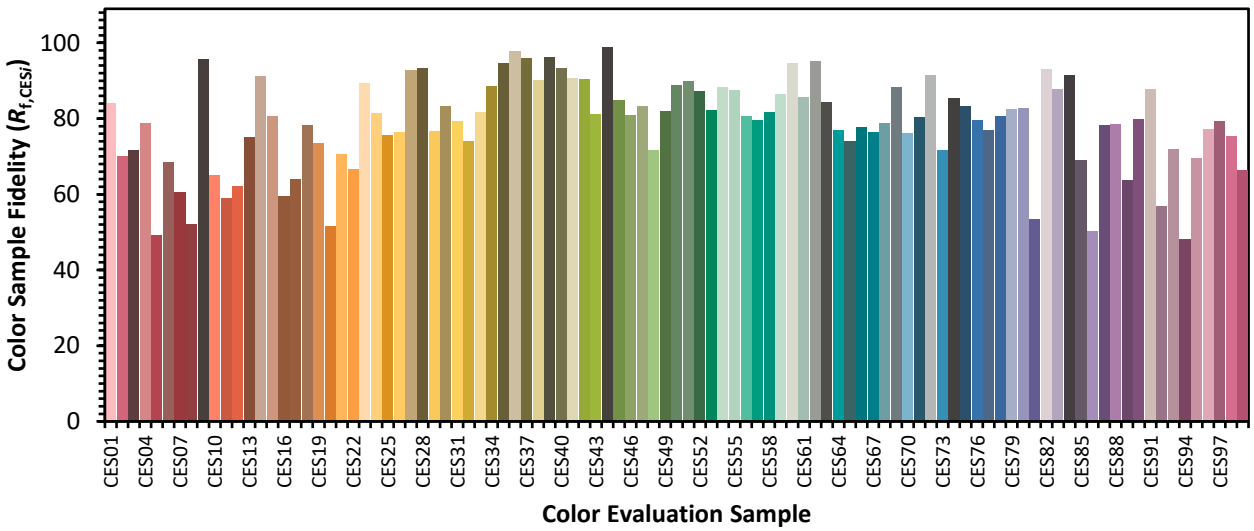


REPORT NUMBER: SP1-2501-332-2

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

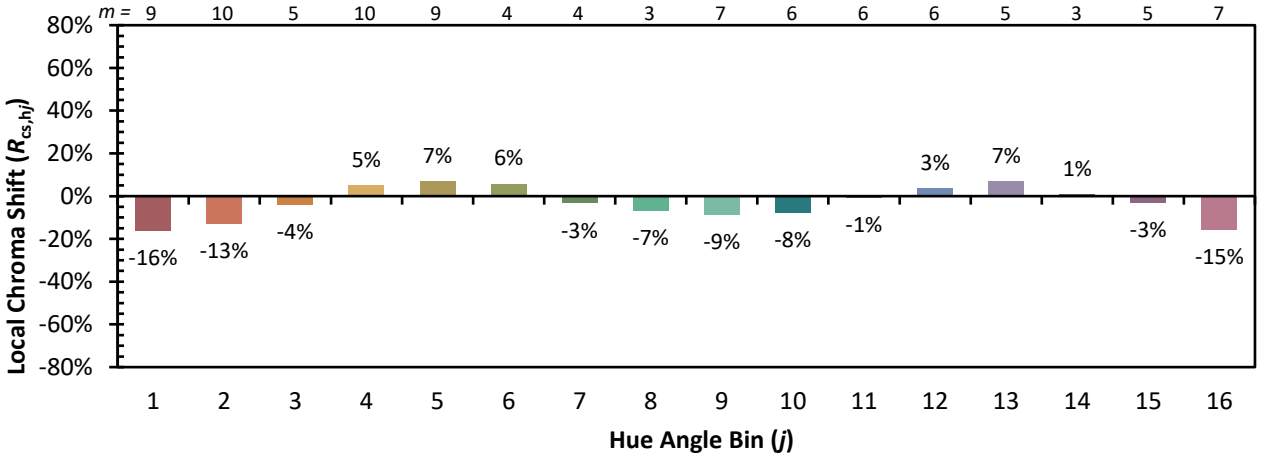
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

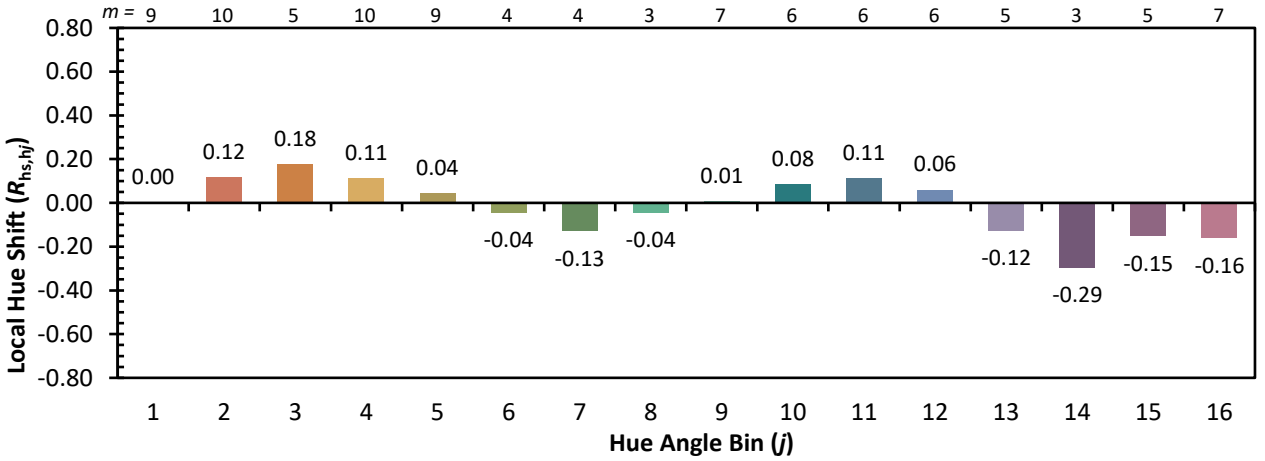


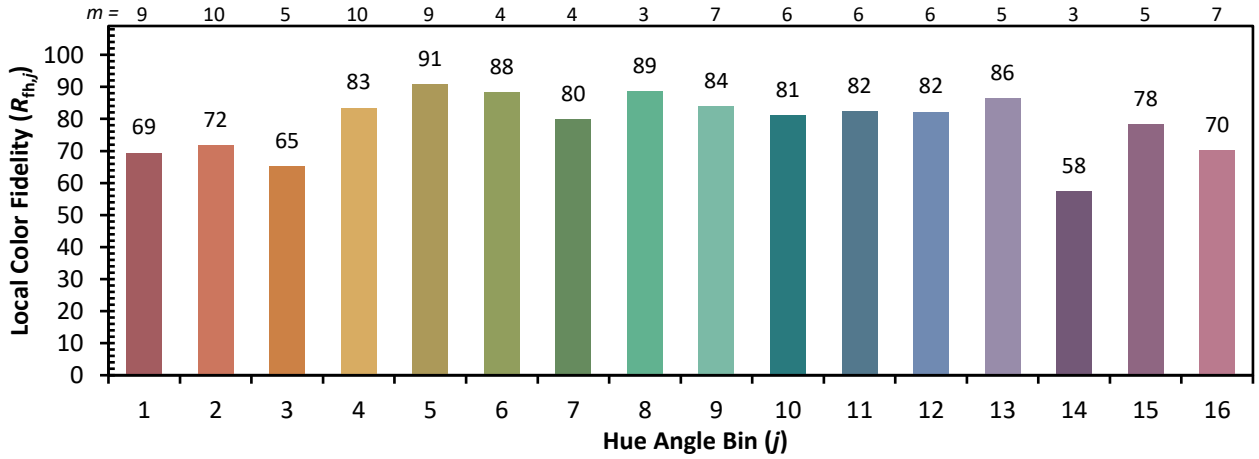
REPORT NUMBER: SP1-2501-332-2

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Color Rendition by Hue-Angle Bin



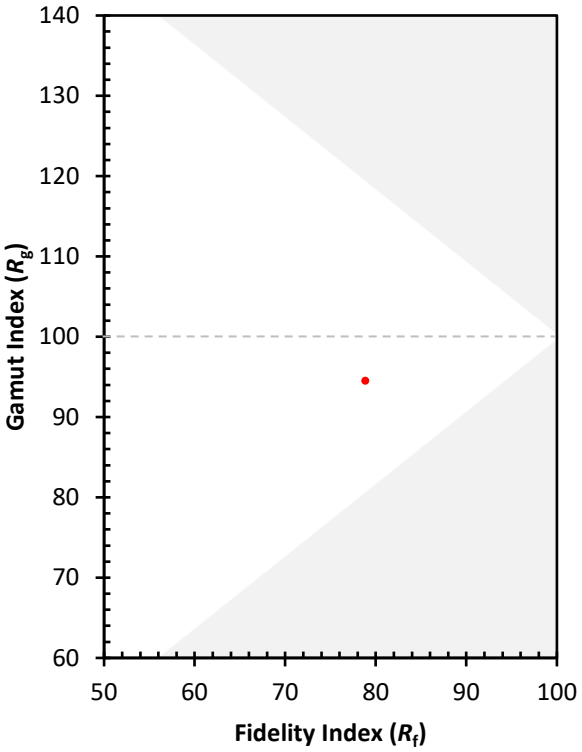


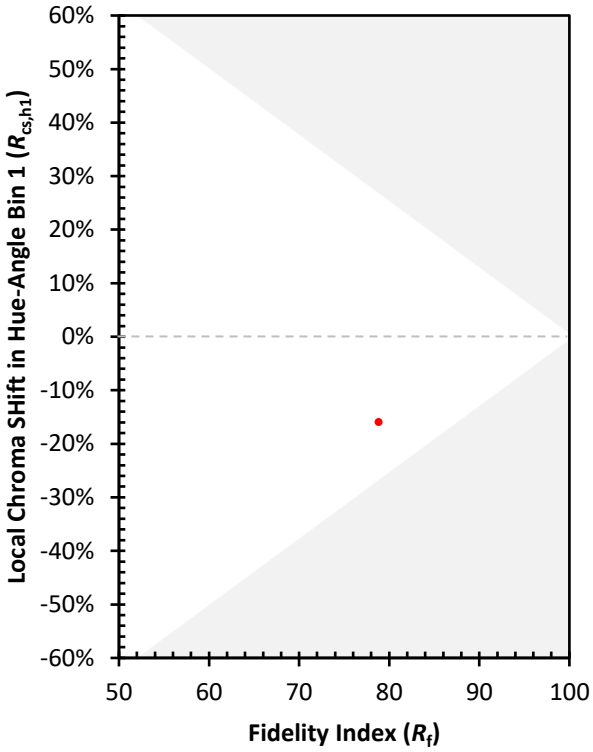


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Measure Comparisons





(END OF REPORT)