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: P981413

Luminaire Tested: **FFX-CLB-30-722-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981413
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4041.7 lumens
Efficiency:	N/A
Efficacy:	132.1 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U4 - G2

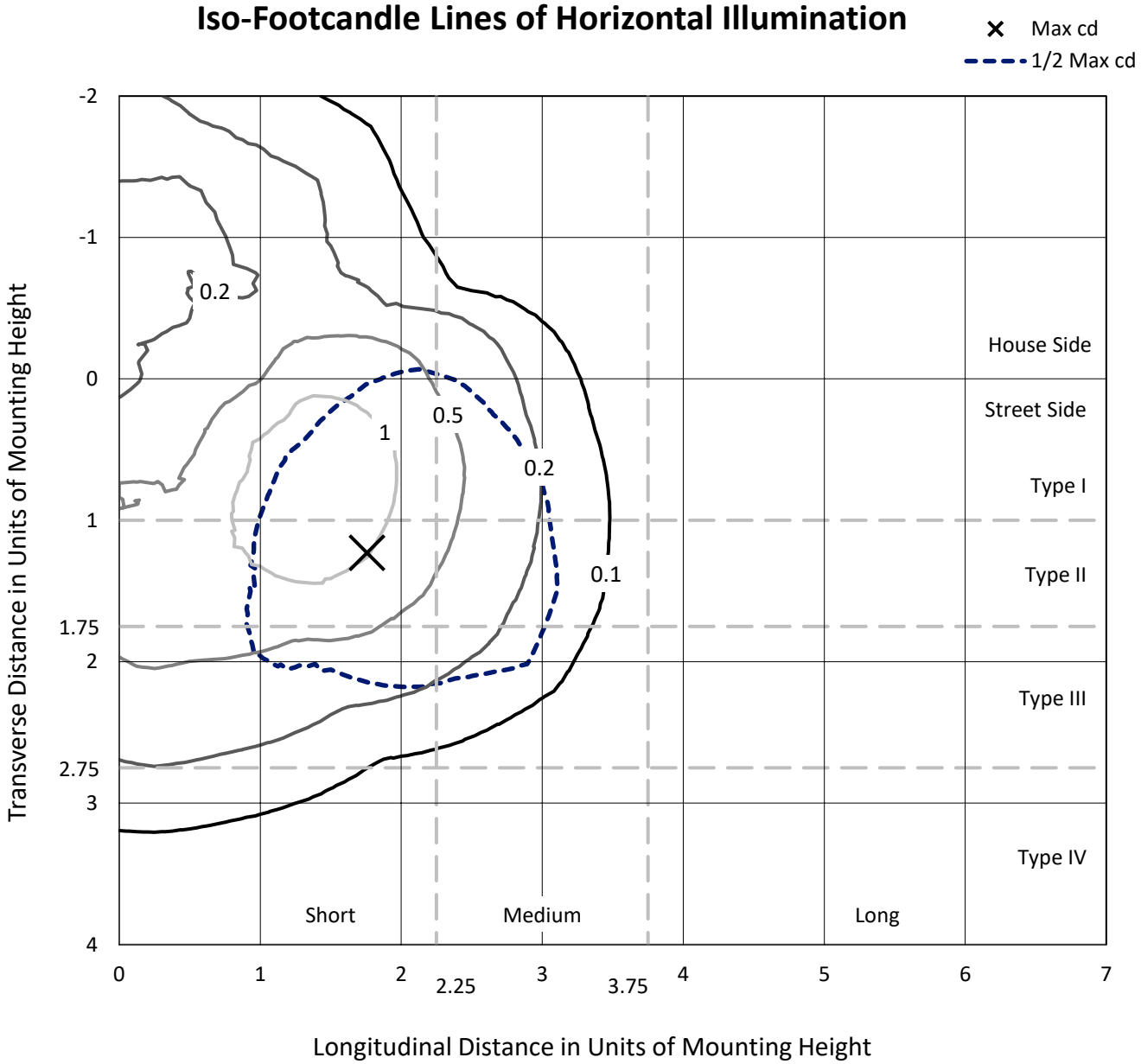
Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



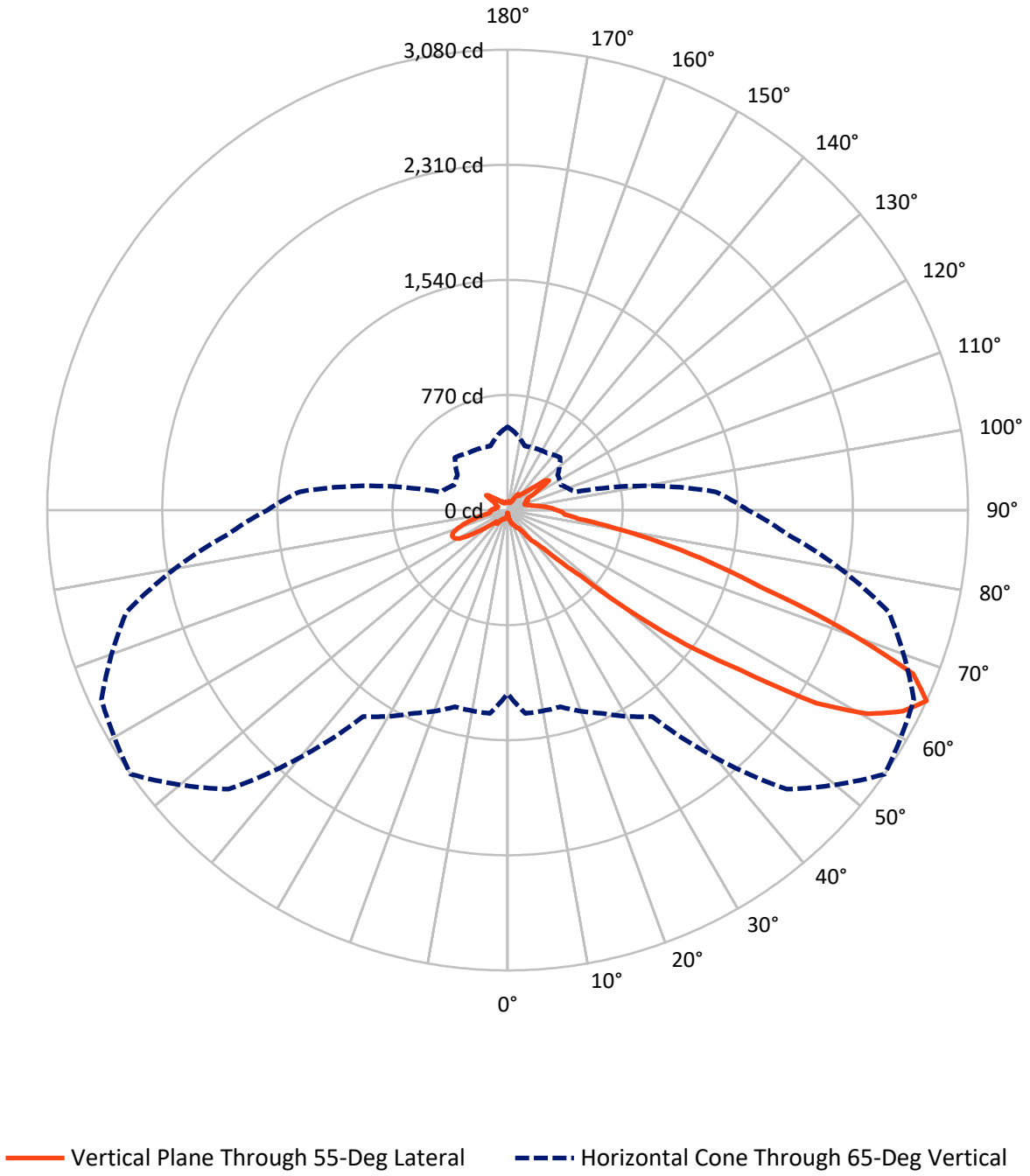
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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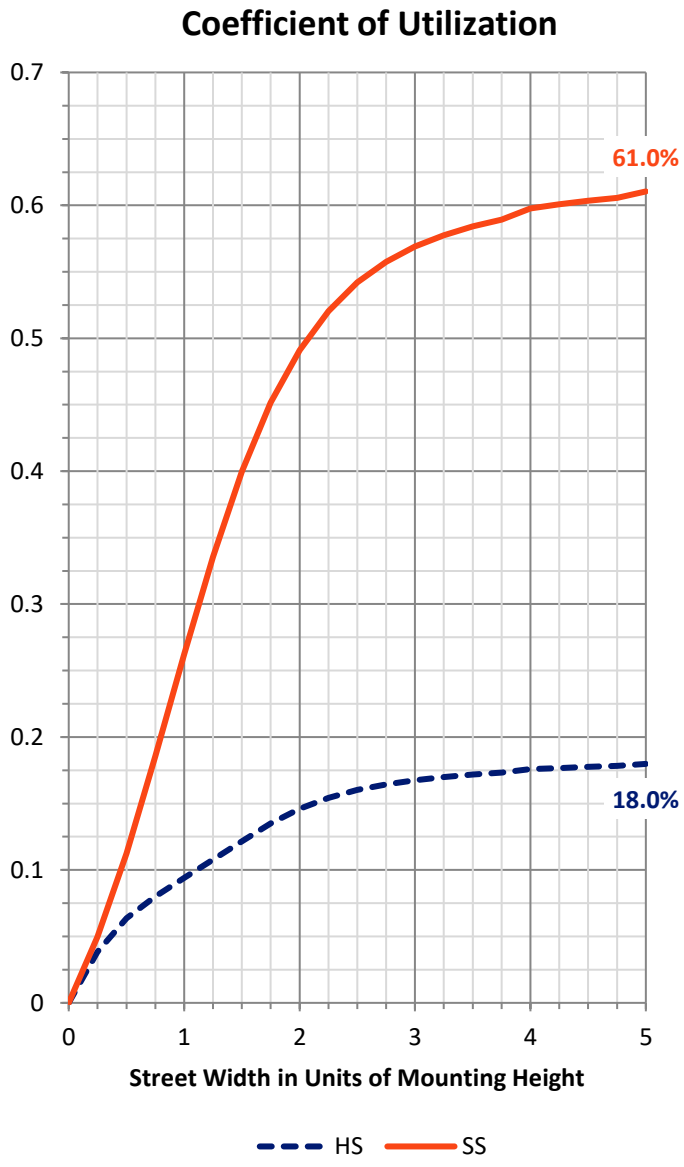
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.6	271.4	1029.0
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	2547.1	465.6	3012.7
	% Fixture	63.0	11.5	74.5
Total	Lumens	3304.6	737.0	4041.7
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	20.5	0.5
20°-30°	42.2	1.0
30°-40°	88.4	2.2
40°-50°	233.3	5.8
50°-60°	776.4	19.2
60°-70°	1252.5	31.0
70°-80°	657.0	16.3
80°-90°	230.5	5.7
90°-100°	148.8	3.7
100°-110°	96.5	2.4
110°-120°	105.9	2.6
120°-130°	178.1	4.4
130°-140°	104.3	2.6
140°-150°	55.8	1.4
150°-160°	27.7	0.7
160°-170°	14.6	0.4
170°-180°	5.3	0.1
0°-90°	3304.6	81.8
0°-180°	4041.7	100.0



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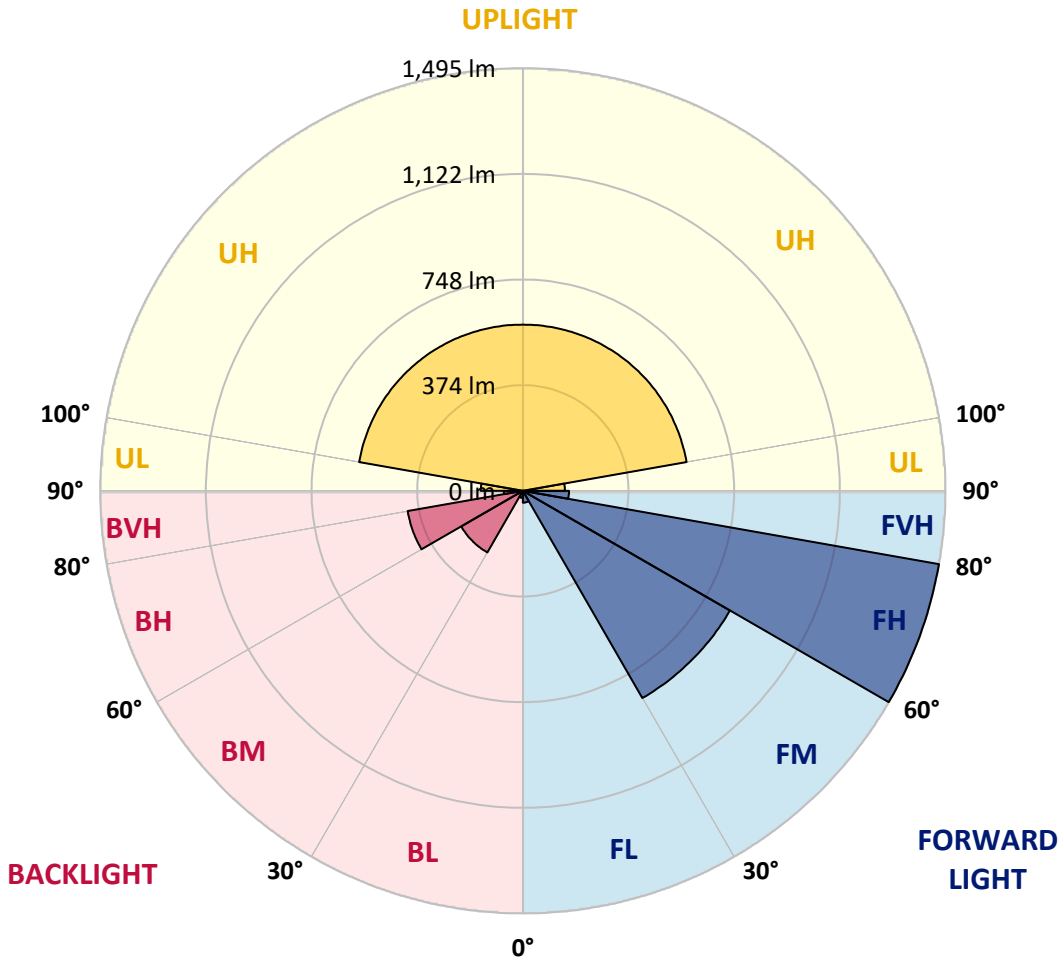
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	41.9	1.0			
FM	(30°-60°)	846.4	20.9			
FH	(60°-80°)	1495.5	37.0			G1/1800
FVH	(80°-90°)	163.2	4.0			G2/225
BL	(0°-30°)	24.6	0.6	B0/110		
BM	(30°-60°)	251.7	6.2	B1/1000		
BH	(60°-80°)	414.0	10.2	B1/500		G1/500
BVH	(80°-90°)	67.3	1.7			G1/100
UL	(90°-100°)	148.8	3.7		U3/500	
UH	(100°-180°)	588.2	14.6		U4/1000	

BUG Rating: B1-U4-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	22.9	23.4	24.8	25.3	25.5	25.0	24.0	25.0	25.0	25.0	24.8
5°	33.3	33.3	33.3	34.1	34.3	34.9	34.3	33.0	31.9	30.9	30.6
7.5°	46.6	47.1	47.4	47.4	47.4	48.4	49.5	47.1	45.0	42.8	42.3
10°	66.8	65.5	64.1	64.7	63.6	61.5	62.5	60.7	55.9	54.3	54.3
12.5°	85.4	85.2	85.7	82.8	81.2	76.6	77.2	76.1	72.7	67.1	65.2
15°	95.8	96.6	96.3	97.4	95.0	88.6	87.0	87.6	84.4	79.0	76.4
17.5°	101.1	101.1	101.4	102.7	102.7	96.6	93.9	92.6	90.0	85.4	82.0
20°	103.8	103.8	103.5	105.4	109.1	105.7	101.9	99.8	97.4	90.2	84.9
22.5°	111.2	110.7	109.9	110.4	116.0	115.0	112.0	108.9	105.4	94.5	87.8
25°	119.0	119.2	116.8	117.6	123.2	124.8	122.4	119.2	115.2	98.7	92.1
27.5°	127.7	127.5	124.3	125.4	128.3	134.1	131.2	129.6	123.0	102.2	95.8
30°	135.7	134.4	131.2	133.9	133.9	143.2	140.5	141.3	133.1	108.6	101.7
32.5°	141.6	141.3	139.5	142.9	141.1	153.0	152.2	158.9	146.6	121.1	114.7
35°	154.9	155.2	162.9	169.5	166.3	183.9	187.6	196.1	181.2	152.2	145.3
37.5°	250.7	247.5	236.9	224.6	226.2	259.0	254.4	259.0	236.1	194.3	183.4
40°	264.0	264.8	252.6	243.3	241.9	283.7	290.6	327.4	279.4	232.9	211.3
42.5°	257.1	259.8	293.3	305.3	294.6	347.8	350.0	420.8	326.0	287.2	258.7
45°	326.0	326.6	333.5	341.2	342.5	475.1	482.5	560.8	414.6	361.7	313.5
47.5°	371.0	375.3	384.8	437.5	465.5	607.3	657.1	781.4	552.2	493.2	398.1
50°	524.6	536.3	583.6	628.9	672.5	900.6	1068.0	1216.3	829.6	722.8	578.6
52.5°	639.3	681.3	734.3	843.4	889.4	1230.9	1493.8	1585.7	1162.0	979.7	788.3
55°	738.8	816.0	873.2	1051.8	1139.3	1604.8	1885.3	1898.6	1559.3	1195.8	1010.8
57.5°	943.7	1056.3	1093.6	1246.3	1368.2	2050.1	2439.7	2374.2	1964.9	1441.9	1248.2
60°	1136.7	1266.3	1252.5	1393.2	1554.5	2433.1	2767.9	2734.6	2345.0	1675.1	1455.8
62.5°	1199.5	1331.0	1319.3	1467.2	1684.1	2611.6	2964.8	2909.7	2569.3	1820.9	1560.1
65°	1226.9	1365.6	1362.4	1500.8	1685.7	2640.1	3079.5	2997.5	2639.8	1879.7	1605.9
67.5°	1203.5	1335.5	1334.2	1461.6	1562.8	2433.6	2924.3	2803.5	2466.1	1741.4	1507.2
70°	1038.5	1130.3	1124.7	1203.0	1255.9	1934.3	2373.2	2281.9	1990.2	1431.0	1248.5
72.5°	846.9	874.0	885.7	930.4	944.5	1415.6	1779.7	1707.0	1484.0	1071.7	946.7
75°	676.3	677.6	689.8	705.5	700.7	1041.4	1401.8	1356.8	1094.4	799.5	718.0
77.5°	447.6	444.2	497.9	504.3	473.7	663.5	1046.7	1015.1	783.2	582.6	525.1
80°	256.8	257.9	294.6	317.8	305.5	421.6	717.2	710.3	537.9	407.7	360.6
82.5°	191.6	200.7	220.4	232.6	227.8	317.0	477.2	490.2	382.2	293.3	268.0
85°	213.4	218.5	220.6	221.4	215.6	296.5	385.4	384.6	321.2	246.2	237.7
87.5°	207.9	212.1	214.0	215.0	209.2	283.4	364.1	358.8	308.2	236.6	224.1
90°	174.9	184.7	184.4	193.7	187.1	249.1	319.4	315.9	279.7	218.0	203.3
92.5°	146.6	152.2	156.0	168.7	162.9	219.3	287.2	279.2	250.4	198.3	182.6
95°	137.1	142.1	145.0	152.2	145.0	189.5	241.9	234.7	207.9	165.3	150.1
97.5°	115.5	117.1	119.8	124.6	119.8	153.6	195.9	189.0	166.9	134.9	124.3
100°	97.9	99.5	103.0	106.5	104.1	131.5	163.9	160.2	143.4	117.4	110.2
102.5°	92.6	93.7	98.2	100.3	97.4	120.8	144.8	144.8	129.9	108.3	102.5
105°	88.4	89.7	93.1	93.9	91.8	111.2	133.6	132.3	120.6	101.4	95.8
107.5°	84.1	85.7	88.6	87.3	86.2	102.5	120.0	122.2	112.0	96.3	92.6
110°	88.6	89.2	91.6	89.4	91.3	101.9	120.6	121.1	118.2	105.1	101.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	120.6	117.6	122.7	114.7	120.8	128.3	*140.0*	144.2	140.8	125.9	122.4
115°	132.0	134.1	139.5	131.5	135.5	144.5	*150.1*	150.9	146.9	137.3	136.0
117.5°	103.0	113.6	108.1	112.8	114.4	126.9	*139.7*	143.4	139.7	126.4	134.7
120°	131.7	140.3	121.1	115.2	123.2	145.0	*156.8*	160.0	149.8	150.1	155.2
122.5°	218.5	223.3	235.3	241.4	232.1	245.4	*249.4*	252.3	236.9	218.8	209.7
125°	331.6	328.2	326.6	325.0	322.6	336.7	*339.3*	331.9	316.4	291.2	277.1
127.5°	299.9	302.9	307.4	306.9	304.7	315.6	*322.3*	317.8	313.5	289.3	281.0
130°	215.8	217.2	225.2	239.5	237.9	246.7	*247.5*	252.0	259.2	248.6	240.1
132.5°	178.8	180.2	192.2	198.5	199.1	199.3	*195.6*	206.0	213.4	202.8	195.6
135°	156.0	156.0	158.6	156.2	157.0	163.9	*167.1*	176.5	178.3	173.3	166.1
137.5°	137.9	138.4	132.8	128.3	129.1	141.6	*148.8*	156.0	152.2	141.9	136.8
140°	120.0	117.1	109.4	108.1	113.9	125.9	*130.1*	135.2	136.3	123.0	116.3
142.5°	88.4	87.3	90.8	97.9	101.1	121.1	*117.9*	127.5	128.0	105.7	94.7
145°	98.7	98.5	98.2	99.5	107.0	136.0	*128.3*	140.5	146.4	112.3	91.8
147.5°	111.5	111.2	108.9	105.9	117.1	124.3	*117.4*	128.0	134.4	111.5	88.9
150°	86.2	86.8	85.4	84.6	96.9	95.5	*93.9*	96.9	99.5	92.4	80.9
152.5°	67.1	66.0	65.2	65.5	75.6	74.0	*74.0*	76.1	76.4	73.7	67.9
155°	60.4	60.1	59.6	60.7	66.8	65.2	*63.9*	63.3	62.0	61.2	60.4
157.5°	56.7	56.2	56.2	57.8	62.0	59.3	*58.8*	58.3	57.5	57.5	57.8
160°	53.0	52.7	52.7	55.1	56.4	54.0	*53.5*	53.2	53.0	53.5	54.0
162.5°	50.8	50.8	50.8	52.4	52.4	50.8	*50.3*	50.0	50.3	52.2	52.4
165°	50.0	49.8	50.0	50.8	50.6	49.5	*49.2*	49.2	50.0	51.6	51.9
167.5°	51.4	51.4	51.4	51.6	51.4	50.3	*50.0*	50.0	50.8	52.2	52.2
170°	53.5	53.2	53.2	53.2	53.0	51.9	*51.4*	51.6	51.9	52.7	52.7
172.5°	55.4	55.4	55.1	54.8	54.3	53.8	*53.2*	53.2	53.2	53.5	53.5
175°	57.5	57.5	57.5	57.2	57.2	56.4	*56.2*	55.9	55.6	55.4	55.1
177.5°	59.9	59.6	59.6	59.6	59.6	58.8	*58.3*	58.0	57.5	57.2	57.2
180°	58.8	58.8	58.8	58.8	58.8	58.8	*58.8*	58.8	58.8	58.8	58.8

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2.5°	24.8	24.0	22.6	20.2	19.4	18.6	17.8	16.2	15.4	14.9
5°	30.3	29.3	29.0	27.7	25.8	24.2	24.0	23.4	23.2	22.4
7.5°	43.4	43.9	45.2	42.8	37.5	34.6	35.4	38.3	37.3	37.0
10°	54.6	58.0	60.7	54.6	45.0	38.9	39.1	45.0	45.5	46.6
12.5°	63.9	66.8	66.3	58.6	49.5	43.6	41.8	45.0	47.9	48.2
15°	74.0	68.9	67.1	60.7	54.3	49.8	49.0	49.8	49.8	49.2
17.5°	78.2	69.5	64.1	58.8	54.3	51.1	50.0	48.7	46.8	46.8
20°	79.3	71.6	65.5	59.9	55.4	51.9	49.0	47.4	46.8	46.8
22.5°	82.5	75.6	69.2	62.5	57.8	53.2	49.8	48.2	48.2	48.4
25°	87.0	80.6	72.7	65.7	60.7	55.9	51.4	49.0	48.7	49.0
27.5°	92.6	86.0	77.2	69.7	63.9	58.6	53.0	50.0	49.0	49.0
30°	99.0	91.3	81.4	73.2	66.8	62.0	55.1	51.1	49.8	49.2
32.5°	110.4	101.7	86.8	77.7	70.5	65.2	58.3	53.2	50.6	50.0
35°	138.7	125.1	105.7	89.2	78.2	68.9	60.7	54.6	51.1	50.6
37.5°	169.3	148.8	130.4	112.0	96.1	80.9	65.2	56.7	52.4	51.6
40°	188.4	161.5	145.3	117.9	115.8	103.3	80.1	62.5	55.1	54.0
42.5°	227.8	187.6	161.8	104.1	113.1	115.8	101.1	78.5	62.3	60.4
45°	274.4	220.6	181.5	111.2	116.6	113.4	103.5	91.0	77.7	74.0
47.5°	355.6	251.8	188.4	129.1	133.3	124.6	109.9	96.9	87.0	85.7
50°	513.1	343.3	212.1	158.6	171.4	146.9	128.0	117.9	104.6	103.0
52.5°	715.9	413.3	238.2	205.2	234.2	203.9	173.3	152.8	149.8	150.9
55°	935.7	434.9	272.5	253.6	304.5	276.0	240.9	221.2	240.6	246.7
57.5°	1153.7	467.3	322.3	316.4	381.1	337.7	310.1	318.6	399.5	418.9
60°	1325.4	495.0	364.3	376.9	457.0	409.9	398.1	410.7	549.6	601.2
62.5°	1392.7	482.5	386.2	402.4	492.6	460.4	456.4	468.4	585.5	636.3
65°	*1397.8*	*463.3*	*394.7*	*409.3*	*498.2*	*463.9*	*453.0*	*442.9*	*524.3*	*556.5*
67.5°	1293.4	425.0	384.3	399.5	473.5	428.0	405.3	382.4	424.2	442.1
70°	1042.7	376.9	351.8	360.6	398.1	356.1	325.2	309.5	324.4	323.1
72.5°	789.9	331.9	316.2	307.4	325.2	291.2	257.1	241.9	255.2	251.8
75°	603.3	296.2	281.6	252.3	269.6	223.6	186.0	175.7	182.0	179.6
77.5°	435.4	237.4	218.0	185.8	208.1	162.6	124.8	117.4	119.0	113.9
80°	313.5	177.0	158.1	135.2	153.0	116.3	92.6	91.0	91.8	86.5
82.5°	246.2	141.9	129.3	117.1	122.7	105.1	89.2	87.6	88.4	82.5
85°	229.4	138.9	125.9	117.9	119.8	103.5	86.5	86.0	87.3	80.9
87.5°	216.4	137.6	127.2	115.8	111.2	95.0	80.1	82.5	86.2	79.6
90°	190.8	128.3	119.2	108.9	104.1	89.2	80.1	83.6	83.3	78.5
92.5°	168.2	114.4	107.3	101.4	100.3	90.8	83.8	87.0	88.1	83.3
95°	137.9	96.6	93.1	91.3	92.9	83.6	77.7	79.3	78.2	75.6
97.5°	117.4	88.1	85.7	83.0	81.4	74.8	69.7	71.9	72.9	70.5
100°	106.2	83.8	82.0	79.0	78.8	74.3	71.6	75.8	79.0	77.7
102.5°	99.3	79.6	77.2	74.5	73.7	70.0	67.9	70.5	73.5	70.8
105°	94.2	75.6	71.9	69.5	68.1	65.5	62.8	63.9	67.1	65.7
107.5°	89.4	75.3	69.5	67.6	67.6	64.1	60.4	60.7	62.3	62.0
110°	96.9	83.6	72.9	70.3	69.5	68.4	65.7	63.1	60.9	60.9

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

Scaled Data Report

REPORT NUMBER: P981413
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	116.0	102.5	91.6	83.0	79.6	75.6	70.0	66.0	63.1	62.3
115°	124.6	109.9	99.5	90.2	82.2	74.5	69.7	66.8	65.2	66.8
117.5°	117.4	97.1	95.8	86.2	78.8	72.7	71.3	66.5	69.2	69.2
120°	132.0	112.8	109.9	96.1	85.7	78.0	77.2	76.4	73.5	72.1
122.5°	193.0	167.9	156.0	135.5	117.6	101.7	92.6	80.1	71.3	69.5
125°	262.1	229.1	200.4	173.3	146.4	117.9	93.9	75.3	66.3	64.9
127.5°	262.9	229.4	197.7	164.7	135.5	105.7	84.4	71.3	64.9	64.7
130°	231.3	202.0	167.1	134.4	110.7	91.0	75.6	64.9	60.4	59.1
132.5°	184.2	158.1	135.7	115.5	97.4	80.6	66.8	59.3	56.7	56.4
135°	154.9	132.3	116.6	101.7	87.6	72.7	59.9	56.2	54.8	54.3
137.5°	126.4	112.8	103.3	91.3	77.7	65.5	57.0	55.4	54.8	53.8
140°	109.6	100.6	90.2	76.9	66.5	56.4	51.9	53.2	54.6	54.3
142.5°	89.4	82.8	75.1	66.3	59.1	54.6	52.7	53.5	53.5	53.8
145°	84.9	76.1	71.9	66.5	61.7	58.3	53.8	52.2	51.9	51.9
147.5°	78.8	75.3	72.7	68.9	61.7	55.4	50.3	49.5	50.6	50.3
150°	73.7	71.3	68.1	62.3	55.1	50.8	48.2	48.4	50.3	50.6
152.5°	62.5	61.2	59.1	55.4	50.3	48.2	46.8	47.9	49.2	49.5
155°	55.6	54.8	54.3	51.9	48.7	47.4	46.8	47.6	49.0	49.2
157.5°	55.1	53.2	52.4	50.8	48.4	47.1	47.1	47.9	48.7	49.0
160°	53.5	51.1	50.8	49.2	48.7	47.9	48.4	48.7	49.5	49.2
162.5°	52.2	50.6	50.3	49.2	49.8	50.6	50.6	50.8	51.4	51.1
165°	51.6	50.3	50.0	50.0	51.6	53.0	53.2	53.0	53.0	53.0
167.5°	52.2	51.4	51.1	51.6	53.0	54.6	54.8	54.3	53.8	53.5
170°	53.0	52.7	53.0	53.2	54.0	55.1	55.1	54.6	54.6	54.6
172.5°	53.8	54.3	54.6	54.6	55.4	55.9	56.2	55.9	55.9	55.9
175°	55.4	55.6	55.6	55.9	56.7	57.2	57.8	57.8	57.8	57.8
177.5°	57.2	57.2	57.2	57.5	57.8	58.6	58.8	59.3	59.6	59.6
180°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8

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

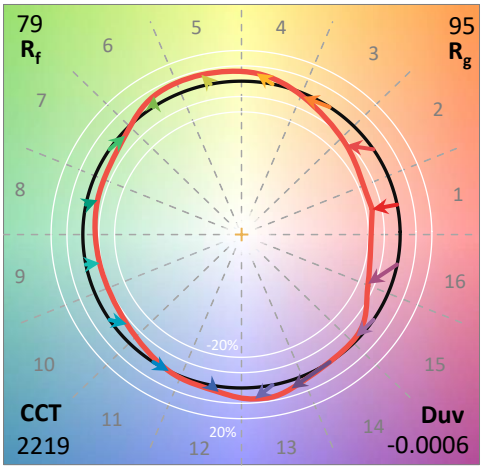
Test Information

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

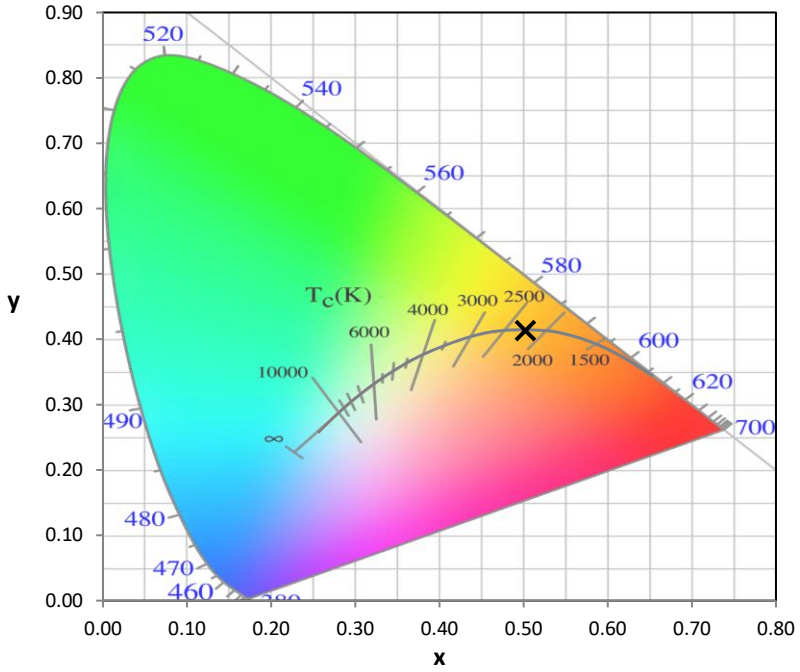
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

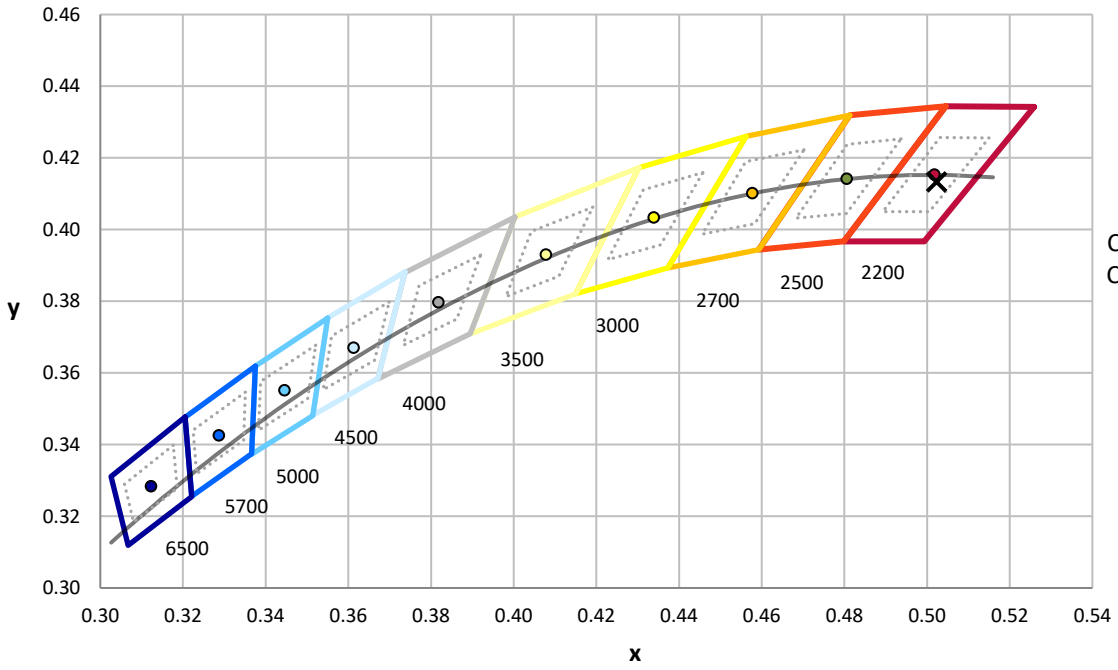
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

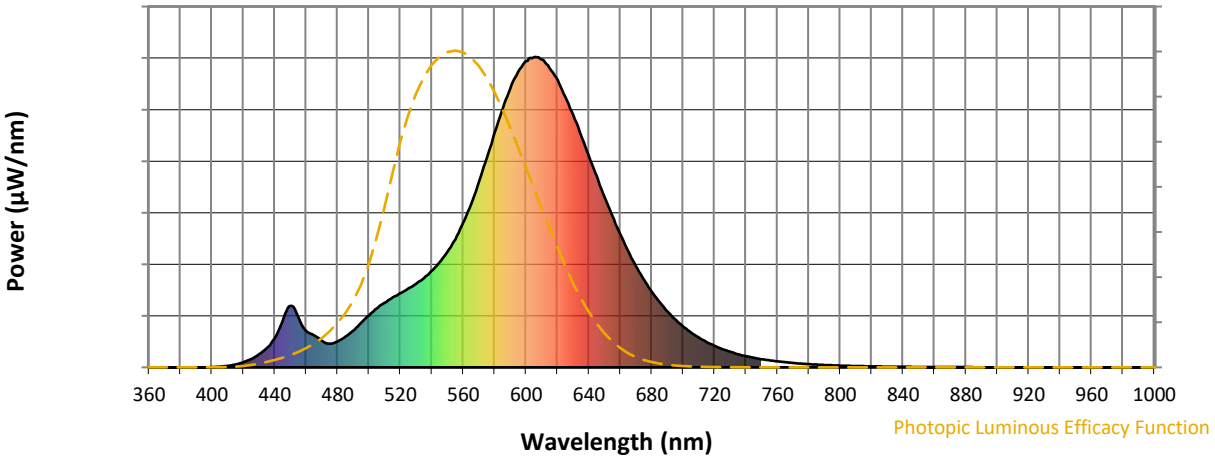


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

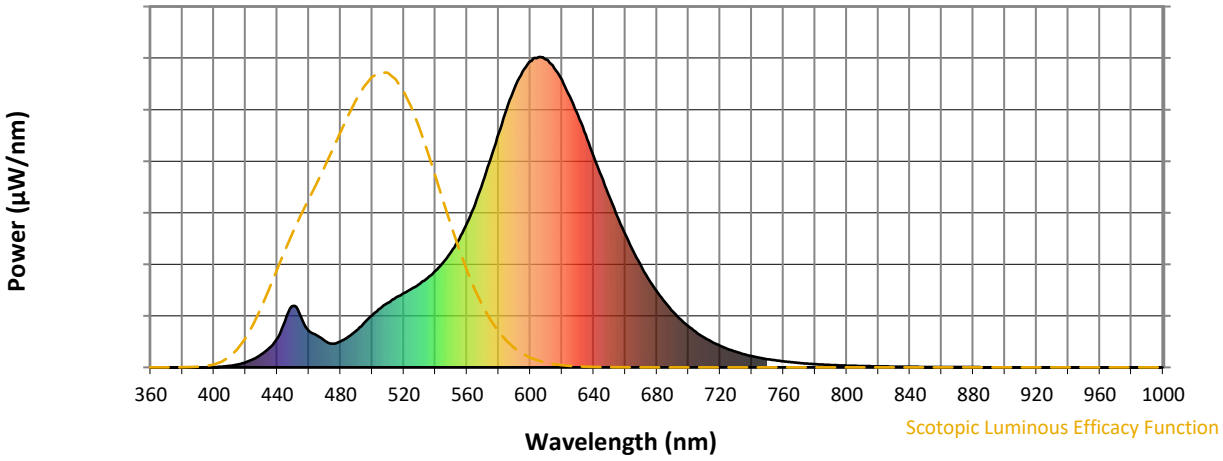


Photopic Lumens: NR

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

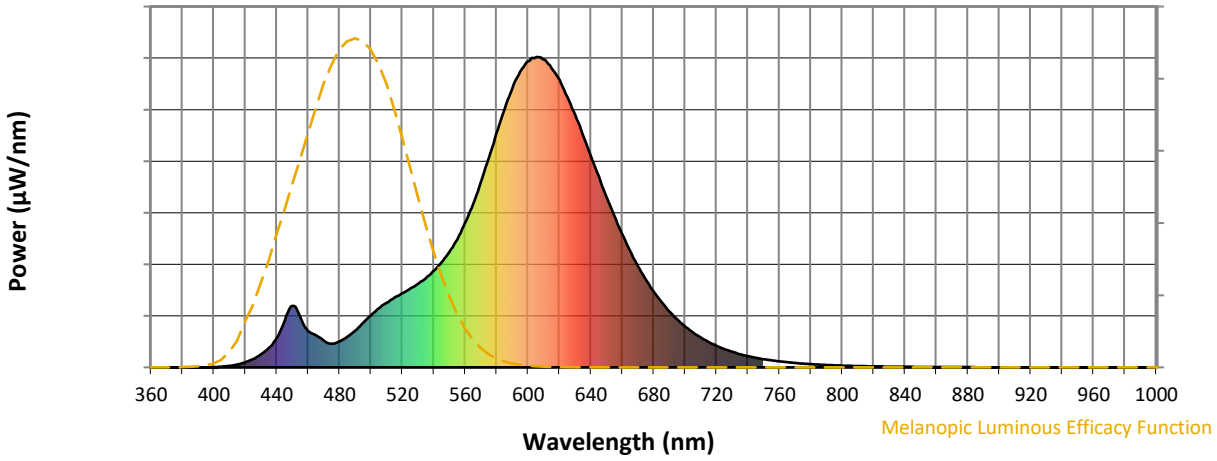


Scotopic Lumens: NR **S/P: 0.94**

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			

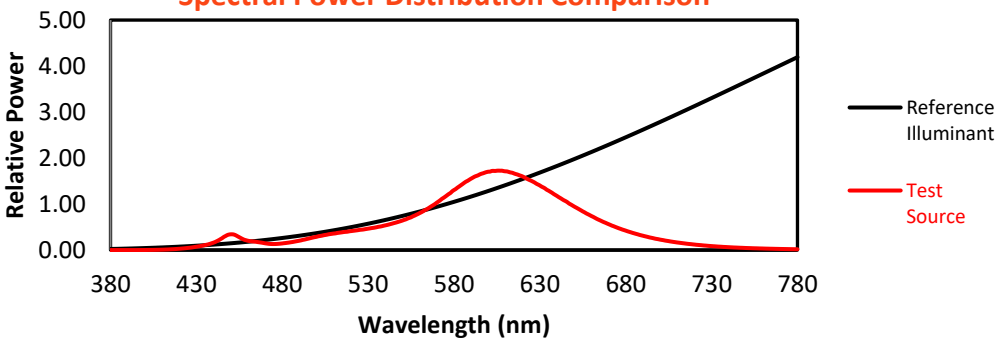
REPORT NUMBER: SP1-2501-332-2

TM-30-18

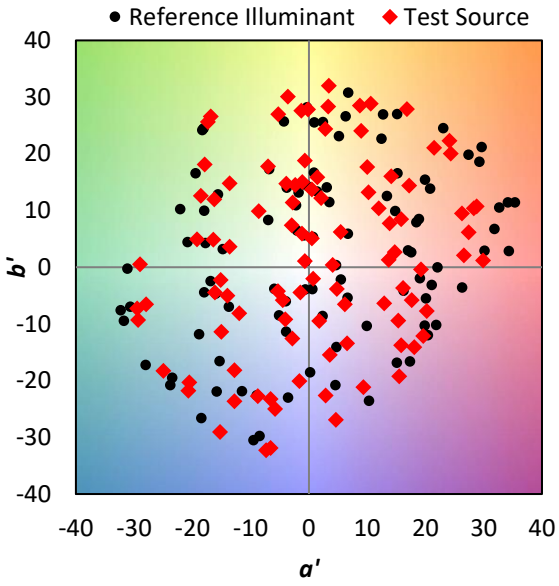
Summary

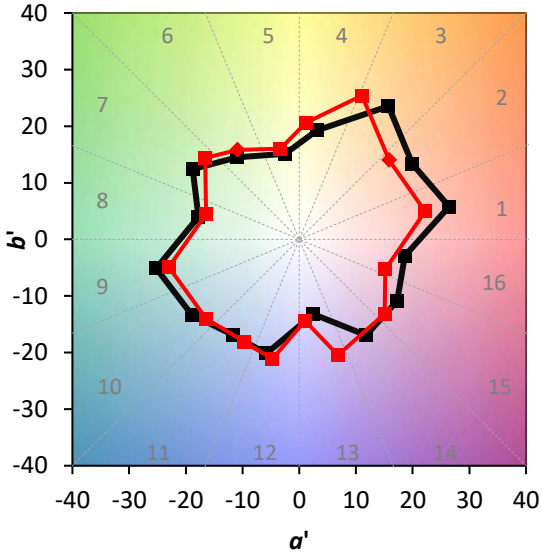
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

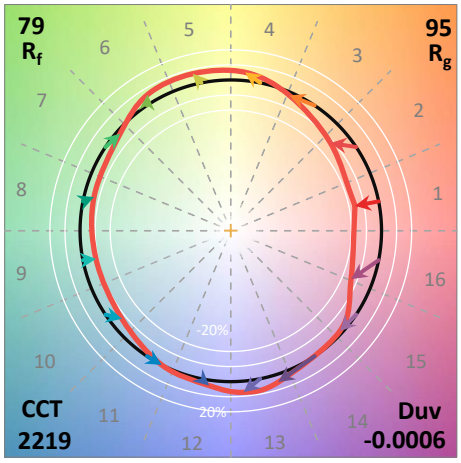
Spectral Power Distribution Comparison

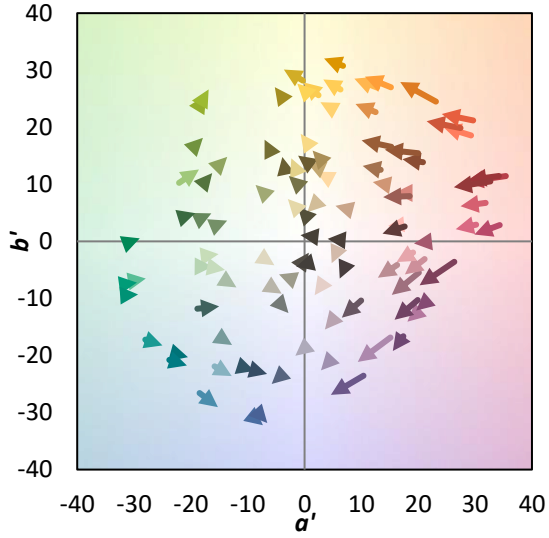


Color Vector Graphics







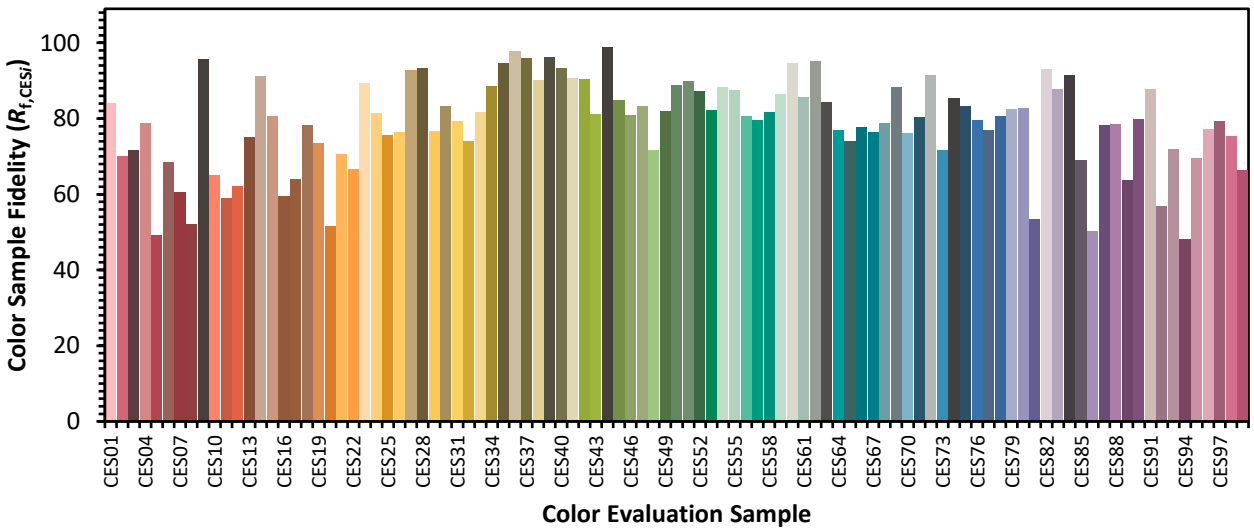


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

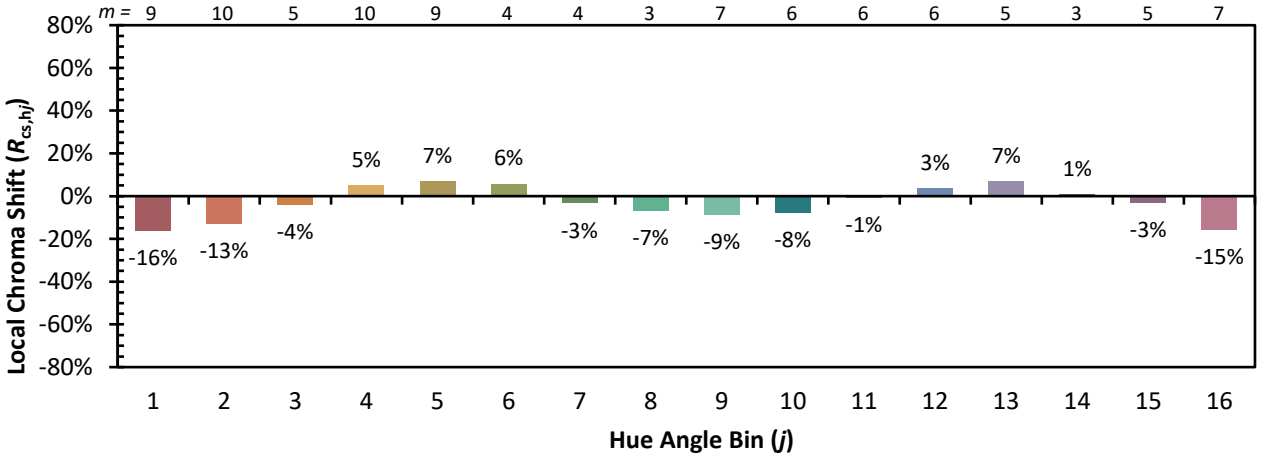
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

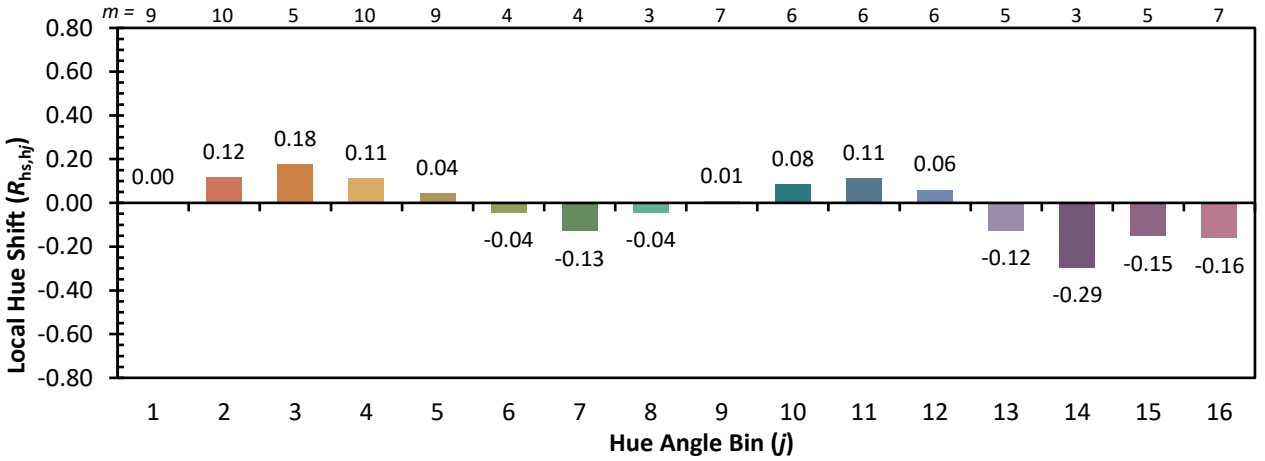


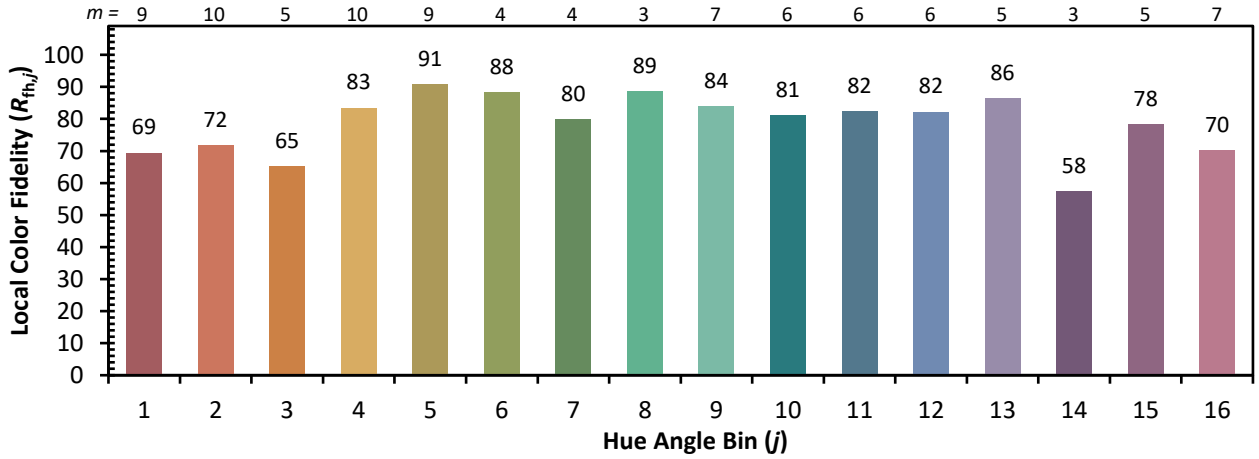
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



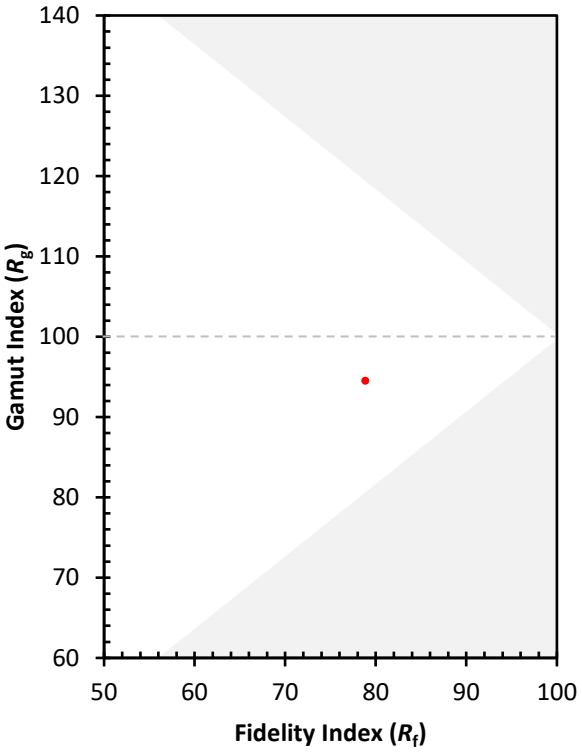


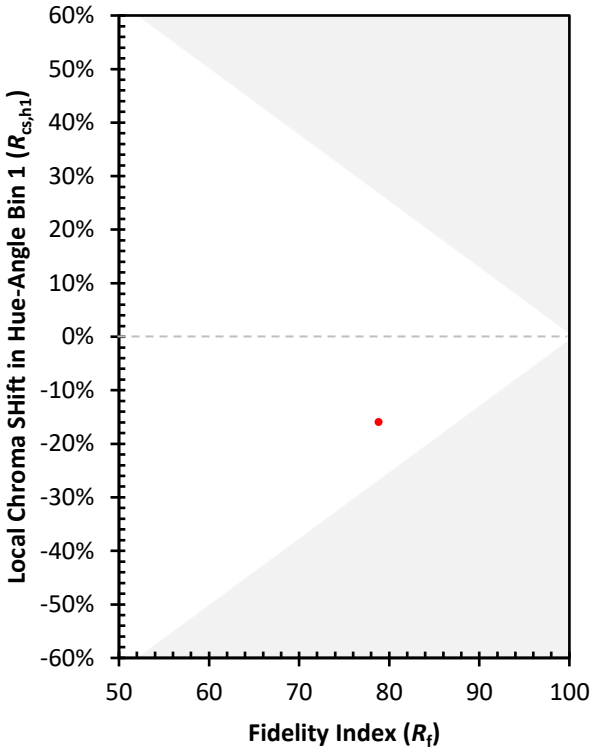


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TM-30-18

Measure Comparisons





(END OF REPORT)