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: P981459

Luminaire Tested: **FFX-CLB-20-722-U-FR-T3-UPLR**

Issue Date: 04/15/2025

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981459
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-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:	2607.3 lumens
Efficiency:	N/A
Efficacy:	131.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

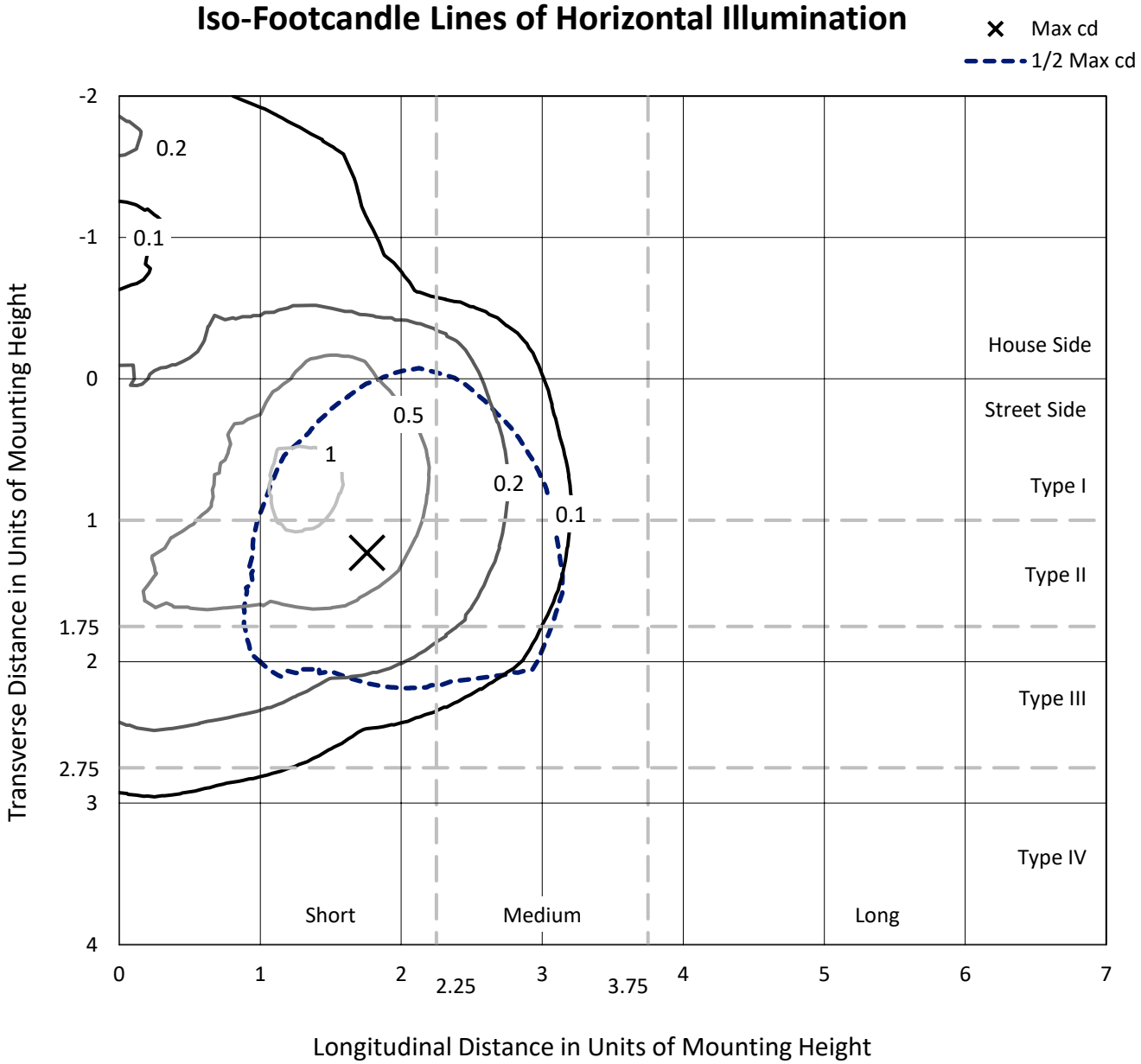
Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



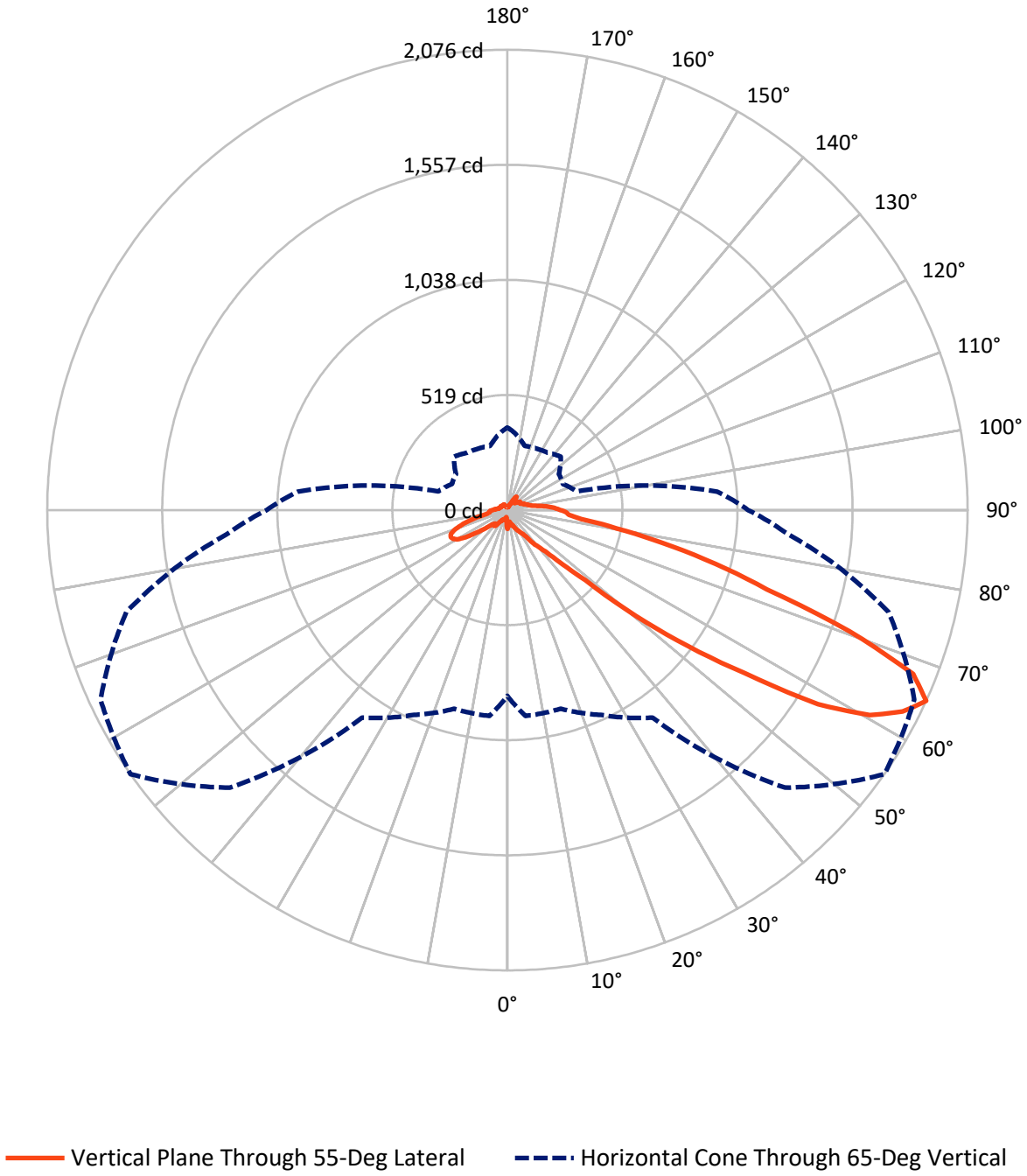
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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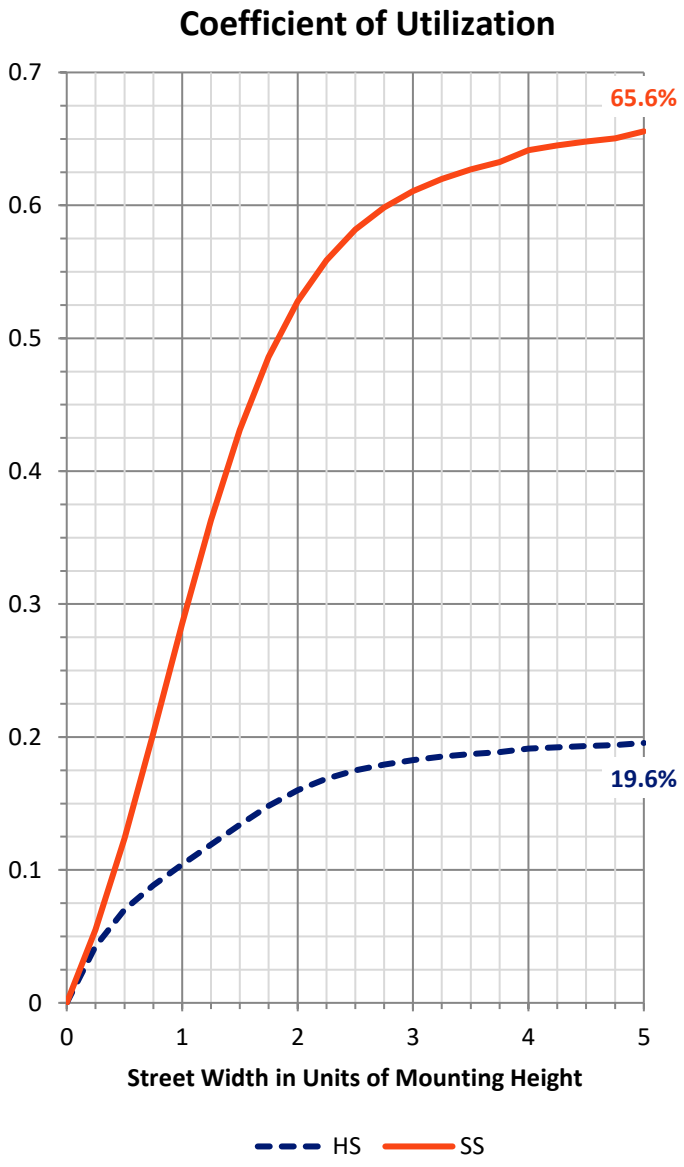
REPORT NUMBER: P981459
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.7	103.4	633.0
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	1767.5	206.8	1974.3
	% Fixture	67.8	7.9	75.7
Total	Lumens	2297.1	310.2	2607.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.2
10°-20°	15.9	0.6
20°-30°	32.6	1.3
30°-40°	70.7	2.7
40°-50°	171.5	6.6
50°-60°	535.5	20.5
60°-70°	850.9	32.6
70°-80°	453.5	17.4
80°-90°	161.6	6.2
90°-100°	98.3	3.8
100°-110°	58.2	2.2
110°-120°	45.4	1.7
120°-130°	37.9	1.5
130°-140°	27.7	1.1
140°-150°	25.5	1.0
150°-160°	11.5	0.4
160°-170°	4.4	0.2
170°-180°	1.3	0.0
0°-90°	2297.1	88.1
0°-180°	2607.3	100.0



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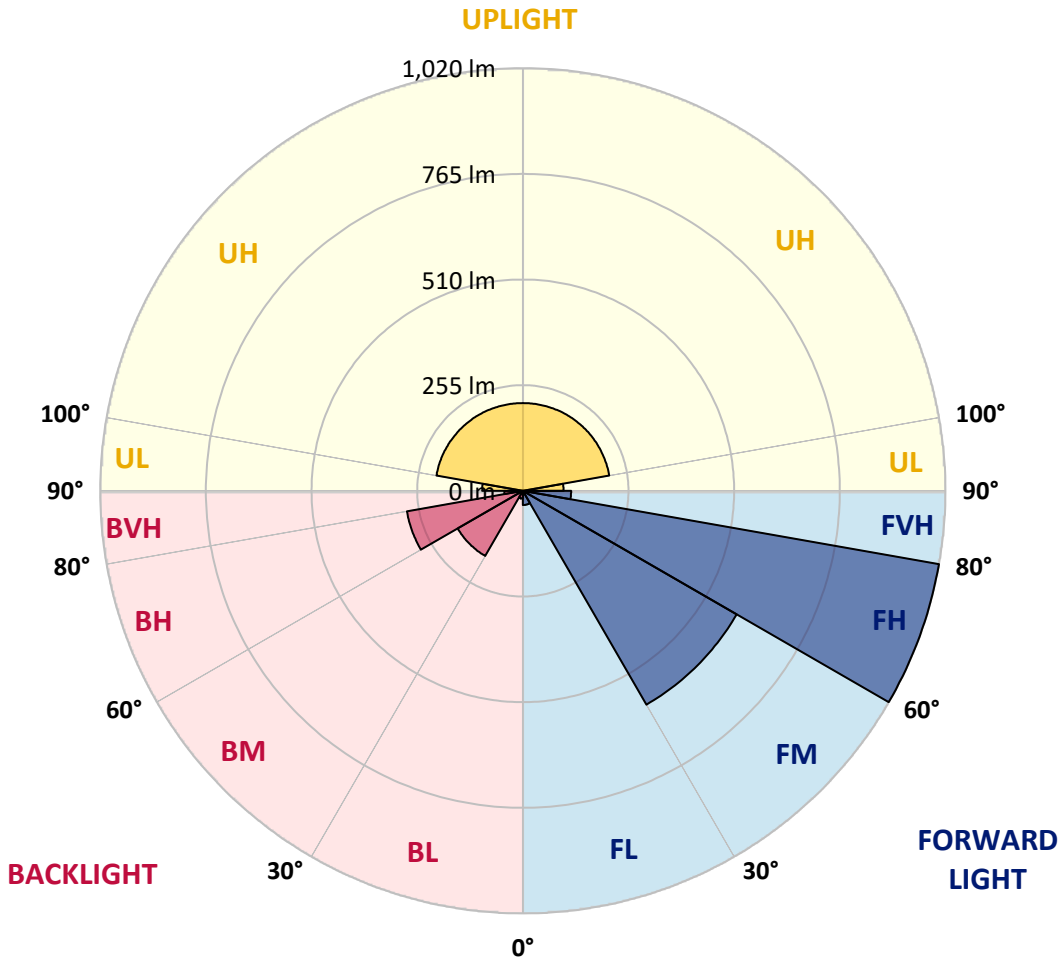
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	34.5	1.3			
FM	(30°-60°)	596.2	22.9			
FH	(60°-80°)	1020.2	39.1			G1/1800
FVH	(80°-90°)	116.6	4.5			G2/225
BL	(0°-30°)	19.0	0.7	B0/110		
BM	(30°-60°)	181.5	7.0	B0/220		
BH	(60°-80°)	284.2	10.9	B1/500		G1/500
BVH	(80°-90°)	45.0	1.7			G1/100
UL	(90°-100°)	98.3	3.8		U3/500	
UH	(100°-180°)	211.9	8.1		U3/500	

BUG Rating: B1-U3-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2.5°	50.5	50.9	56.5	60.9	66.4	64.8	64.8	76.8	84.8	96.4	95.4
5°	54.0	51.7	52.8	56.7	64.1	67.6	63.8	50.5	41.9	45.4	49.6
7.5°	59.2	58.6	57.4	53.7	50.9	58.5	69.1	61.5	46.4	39.0	37.4
10°	60.6	60.8	60.4	60.8	62.2	58.8	52.8	48.0	46.6	45.9	45.4
12.5°	73.3	73.1	73.8	72.9	69.6	65.5	66.8	63.2	56.3	51.6	50.3
15°	85.5	85.1	84.9	81.6	76.1	69.6	66.4	68.0	63.6	58.1	55.6
17.5°	90.4	90.4	86.9	82.1	78.8	74.2	71.7	69.9	66.6	63.0	60.0
20°	88.5	88.3	84.8	82.8	83.2	81.1	78.9	76.3	72.9	67.3	63.6
22.5°	87.4	87.4	86.2	85.7	88.7	88.0	87.4	84.1	79.7	71.4	66.6
25°	94.3	93.8	92.2	92.2	95.0	97.3	98.2	95.5	88.3	75.8	71.4
27.5°	101.0	100.8	98.7	99.3	101.0	105.6	107.0	105.8	95.9	79.5	75.6
30°	109.1	107.9	106.1	109.3	109.0	115.3	117.3	118.7	106.1	87.1	82.5
32.5°	117.8	117.1	115.7	119.7	121.2	127.0	128.6	135.6	120.1	100.7	95.9
35°	132.5	131.9	135.6	143.6	143.4	154.4	150.1	160.7	146.1	125.2	120.4
37.5°	198.5	195.5	191.3	183.7	183.1	198.3	193.6	201.9	181.2	151.9	146.6
40°	206.6	206.1	204.2	195.5	190.6	216.5	219.7	244.3	210.2	176.6	166.4
42.5°	201.9	202.6	228.5	234.0	223.9	255.9	261.2	304.3	242.8	214.2	195.5
45°	243.4	244.4	252.9	256.8	256.1	336.4	349.5	402.3	300.1	267.0	232.4
47.5°	278.7	275.0	290.3	320.0	340.3	431.1	473.1	554.2	403.2	354.5	290.3
50°	382.9	382.0	419.1	451.6	471.7	620.3	749.7	838.7	590.9	513.9	405.1
52.5°	453.5	483.6	519.1	594.3	612.5	844.0	1019.2	1090.6	816.6	675.0	553.1
55°	525.2	568.5	608.2	725.3	785.7	1096.6	1296.0	1315.6	1072.6	820.7	698.0
57.5°	658.6	731.5	757.1	850.6	938.9	1387.6	1652.0	1631.2	1336.4	989.7	859.7
60°	779.2	867.0	859.6	951.0	1064.6	1624.8	1878.1	1856.2	1577.8	1139.8	984.1
62.5°	819.6	908.1	898.1	997.7	1142.8	1752.0	2001.3	1963.9	1735.9	1236.1	1052.9
65°	838.5	932.5	927.6	1020.5	1142.8	1770.3	2076.4	2025.2	1780.1	1273.2	1086.2
67.5°	821.9	912.5	915.7	998.2	1075.6	1637.7	1974.0	1904.4	1669.5	1184.2	1026.8
70°	718.4	781.9	773.9	848.6	856.2	1311.0	1638.2	1562.5	1356.4	987.4	849.7
72.5°	593.6	609.0	602.4	649.6	658.4	960.2	1224.4	1181.5	1012.9	734.7	649.2
75°	473.3	470.8	484.3	495.2	486.0	704.9	969.6	920.8	749.4	553.3	499.6
77.5°	327.4	308.5	343.9	347.2	332.7	468.7	715.3	696.7	537.1	407.8	368.2
80°	184.0	186.1	211.4	226.4	221.1	298.3	497.7	485.5	366.8	285.0	253.3
82.5°	142.0	148.4	160.2	171.5	164.1	228.2	336.6	337.5	268.3	208.2	190.2
85°	156.1	159.5	161.1	161.4	155.6	212.1	279.0	275.3	227.8	174.3	168.7
87.5°	152.2	155.8	156.3	156.5	151.4	202.0	264.2	258.4	217.2	167.4	158.8
90°	130.5	136.5	137.2	141.8	135.8	180.5	232.6	226.8	195.9	151.0	142.9
92.5°	112.1	115.3	118.7	124.2	117.8	157.2	208.2	201.0	175.4	136.5	125.4
95°	102.6	104.4	107.2	109.3	101.9	133.5	174.1	166.5	142.3	109.9	100.0
97.5°	82.5	84.1	85.3	88.0	82.8	105.8	135.1	128.0	111.6	87.4	80.0
100°	70.5	71.5	72.9	74.7	70.5	88.7	110.9	107.7	92.9	73.8	69.1
102.5°	64.5	65.3	67.8	67.8	65.2	81.1	99.1	96.6	83.5	66.9	63.8
105°	62.2	62.3	64.5	63.6	61.8	75.6	92.4	89.2	78.2	63.6	59.9
107.5°	59.2	59.3	62.0	60.6	59.2	70.1	83.7	82.3	72.4	59.3	56.2
110°	56.2	56.7	60.0	58.8	57.9	65.9	78.4	75.8	69.2	57.4	54.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	53.9	54.2	57.4	56.5	55.8	63.0	*72.8*	72.8	67.6	57.4	53.9
115°	51.9	52.6	55.3	53.5	52.3	59.3	*67.1*	67.5	63.2	54.7	51.2
117.5°	48.6	50.2	51.6	52.3	50.9	56.9	*63.8*	63.4	61.1	52.8	50.3
120°	55.3	54.0	55.1	56.3	54.0	58.8	*64.6*	64.6	62.3	51.9	49.8
122.5°	57.8	56.0	57.0	55.8	55.6	61.8	*69.1*	69.6	64.8	53.5	48.2
125°	51.2	50.5	49.3	48.9	50.3	56.2	*62.7*	65.0	59.9	51.2	45.0
127.5°	43.8	42.9	41.3	42.2	44.9	50.7	*54.0*	55.3	53.2	47.5	42.9
130°	40.4	40.3	41.5	43.1	45.2	50.2	*51.2*	53.0	53.0	46.3	43.6
132.5°	36.9	37.1	41.0	46.4	48.0	49.1	*46.8*	50.2	51.7	47.2	44.2
135°	36.4	36.6	38.7	43.1	43.3	44.0	*44.2*	48.4	49.5	45.0	41.7
137.5°	39.7	39.7	38.1	39.0	41.0	46.3	*48.0*	51.4	50.5	42.6	37.6
140°	43.8	42.9	38.0	38.1	41.5	48.0	*50.3*	52.5	51.4	41.7	35.9
142.5°	36.2	36.6	37.4	40.8	44.7	59.5	*57.6*	62.9	60.8	44.2	35.0
145°	56.5	56.7	55.6	57.0	59.5	79.1	*73.1*	81.6	84.1	57.8	41.5
147.5°	61.8	62.5	60.6	59.3	66.4	72.4	*65.7*	72.8	77.5	60.6	44.5
150°	48.2	48.0	46.8	48.6	53.3	53.0	*49.5*	51.9	53.9	46.3	38.1
152.5°	34.3	33.7	33.0	33.2	38.9	37.4	*36.4*	38.5	38.5	35.5	30.6
155°	28.4	28.4	28.1	29.0	32.1	29.7	*28.8*	28.4	28.1	27.2	25.3
157.5°	24.0	24.5	24.0	25.1	27.2	24.9	*24.4*	23.8	24.0	24.0	23.5
160°	20.0	20.0	19.6	21.4	22.1	20.3	*19.4*	19.1	19.1	20.1	20.1
162.5°	16.8	16.8	17.0	17.7	18.2	17.0	*16.4*	16.4	17.0	18.5	18.5
165°	14.5	14.5	14.7	15.2	15.5	14.8	*14.5*	14.7	16.1	17.5	17.5
167.5°	13.2	13.2	13.2	13.4	13.6	13.2	*13.2*	14.0	15.2	16.1	16.1
170°	12.5	12.5	12.4	12.5	12.5	12.5	*13.2*	14.0	14.5	14.5	14.5
172.5°	12.7	12.7	12.5	12.7	12.7	12.5	*13.4*	14.3	14.0	13.8	13.8
175°	13.1	13.1	13.1	13.2	13.2	12.9	*12.7*	13.1	13.4	13.4	13.2
177.5°	13.1	13.1	12.9	13.1	12.9	12.5	*12.4*	12.2	12.2	12.0	12.0
180°	12.2	12.2	12.2	12.2	12.2	12.2	*12.2*	12.2	12.2	12.2	12.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2.5°	86.4	74.5	65.7	72.6	87.8	95.4	87.8	66.8	47.0	41.2
5°	51.7	50.3	45.4	44.3	46.3	44.5	49.5	46.8	37.1	37.4
7.5°	38.7	46.8	45.2	32.3	30.2	28.3	29.8	34.1	35.1	32.8
10°	44.9	40.4	35.3	32.8	35.9	38.7	36.7	32.0	27.6	26.3
12.5°	49.5	49.1	49.6	44.5	36.6	33.7	32.7	35.1	42.7	44.5
15°	53.2	49.1	45.4	44.3	39.0	36.2	34.8	34.1	32.7	31.6
17.5°	56.9	50.2	46.1	42.0	39.4	36.7	33.7	32.1	32.0	32.1
20°	59.3	53.2	48.4	43.8	40.4	36.9	33.9	32.5	32.5	32.5
22.5°	62.3	56.3	51.2	45.4	41.5	37.6	35.1	33.7	33.6	33.6
25°	67.3	60.6	54.6	48.2	44.0	40.4	37.1	35.3	34.8	34.6
27.5°	72.9	65.5	58.3	51.7	47.3	43.4	39.0	36.4	35.7	35.5
30°	80.2	71.7	62.5	55.6	50.2	46.4	41.2	38.0	36.6	36.4
32.5°	92.0	80.9	68.9	61.3	54.7	49.8	44.0	40.1	37.8	37.3
35°	114.8	101.2	83.2	72.2	61.8	54.0	46.4	41.3	39.0	38.7
37.5°	140.2	119.6	102.1	89.4	76.6	63.6	50.3	43.3	40.4	39.9
40°	151.2	131.6	113.0	93.1	90.2	80.0	61.8	48.0	42.4	41.5
42.5°	175.2	147.3	122.2	82.3	88.8	88.3	76.3	58.8	47.7	45.6
45°	206.3	167.6	136.0	88.0	89.5	86.4	78.2	68.0	57.9	55.6
47.5°	257.0	187.4	140.4	98.9	100.7	93.1	81.9	71.7	64.5	63.6
50°	367.0	245.5	156.7	119.7	125.4	107.9	94.1	85.3	76.6	75.1
52.5°	498.9	290.9	173.4	149.4	169.7	144.6	123.8	107.6	107.0	104.9
55°	637.9	308.4	195.7	182.1	213.7	192.0	171.7	156.8	164.4	165.1
57.5°	794.0	327.1	227.8	224.8	267.0	232.4	215.3	219.3	273.2	294.2
60°	898.1	342.4	255.6	260.1	315.8	282.0	269.2	278.2	369.6	408.0
62.5°	944.3	334.7	269.2	277.1	336.8	312.2	310.1	314.9	392.4	428.3
65°	*950.7*	*323.2*	*276.6*	*283.5*	*340.5*	*315.4*	*306.4*	*299.7*	*351.3*	*372.3*
67.5°	872.6	298.8	270.7	278.0	323.7	293.7	271.3	256.1	285.9	288.1
70°	710.1	266.9	251.0	253.6	276.6	245.8	224.6	211.6	218.5	215.6
72.5°	550.7	235.2	223.6	217.4	224.3	198.0	172.9	166.2	172.7	169.7
75°	418.4	210.2	197.3	176.4	187.7	152.4	124.5	118.5	121.3	117.3
77.5°	307.7	169.4	154.4	130.5	146.1	110.6	84.1	77.9	78.9	75.1
80°	224.5	125.2	112.9	93.6	105.3	78.6	60.8	59.7	59.5	57.0
82.5°	173.4	99.4	90.2	80.5	82.5	69.4	57.6	55.8	55.8	52.1
85°	160.9	96.3	86.9	80.0	80.5	67.3	54.7	53.7	54.2	50.3
87.5°	150.3	94.1	86.5	78.2	74.2	60.9	49.3	50.5	50.9	47.5
90°	128.9	83.7	76.8	68.9	64.1	51.7	44.2	46.4	46.8	43.8
92.5°	113.0	71.9	66.1	59.9	57.8	48.6	42.4	44.2	44.2	41.5
95°	90.1	58.8	56.2	53.2	52.6	45.4	39.6	40.4	40.1	37.8
97.5°	73.3	51.0	48.7	45.9	44.2	38.9	34.8	35.7	35.9	34.3
100°	64.5	47.2	44.0	40.8	39.0	35.0	31.8	33.4	34.4	33.0
102.5°	60.2	45.0	41.5	38.1	36.7	33.0	30.0	31.4	32.8	31.6
105°	57.2	43.4	39.7	36.7	35.0	31.3	28.3	28.6	30.4	29.7
107.5°	53.3	43.4	38.7	35.7	33.6	30.2	26.7	26.3	27.4	27.2
110°	51.9	43.4	38.0	35.0	32.7	29.7	26.5	25.1	25.6	25.6

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

Scaled Data Report

REPORT NUMBER: P981459
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	50.7	43.1	37.3	33.7	31.8	29.3	26.1	24.0	24.5	24.9
115°	47.9	39.7	35.1	31.4	29.5	26.8	24.7	23.1	23.3	23.7
117.5°	46.3	36.7	34.1	30.7	29.3	27.7	25.8	22.8	22.8	23.1
120°	46.3	36.2	35.0	33.7	33.0	30.4	27.2	22.8	22.3	22.3
122.5°	45.6	40.3	38.1	35.3	33.4	29.8	26.0	22.3	21.9	21.9
125°	41.9	38.5	35.1	31.8	29.5	26.7	24.4	22.4	21.7	21.7
127.5°	39.9	34.6	31.4	28.8	27.2	25.8	24.4	22.4	21.5	21.4
130°	40.4	35.0	30.9	28.8	27.6	26.1	24.5	22.1	20.7	20.5
132.5°	40.8	33.7	29.8	28.1	27.2	26.1	24.0	20.8	19.3	19.3
135°	36.9	30.4	28.6	27.4	26.8	26.0	22.8	19.8	18.5	18.4
137.5°	33.6	29.5	28.3	27.0	26.1	24.9	22.4	19.4	17.8	17.7
140°	32.1	28.8	27.0	24.7	23.7	21.2	19.4	17.7	17.1	17.0
142.5°	30.6	27.0	24.9	23.0	22.4	21.5	20.5	17.7	15.9	15.9
145°	36.6	32.5	30.0	28.1	25.6	23.8	20.5	17.0	14.7	14.3
147.5°	38.3	34.6	32.1	29.5	24.9	21.0	17.3	14.8	14.0	13.6
150°	33.6	30.4	27.7	24.9	20.8	18.2	15.7	14.1	13.8	13.8
152.5°	26.7	24.9	22.1	20.1	17.5	15.9	14.5	13.6	13.2	13.2
155°	22.1	20.7	19.1	17.5	16.1	15.0	14.1	13.4	13.1	13.1
157.5°	21.4	19.3	17.8	16.4	15.5	14.5	13.8	13.1	12.9	12.7
160°	19.4	17.0	15.7	14.8	14.7	14.3	13.8	13.2	13.1	12.9
162.5°	18.0	15.5	14.7	14.1	14.7	15.0	14.7	14.0	13.4	13.2
165°	17.0	14.7	14.0	14.0	15.0	15.5	14.7	14.0	14.0	13.8
167.5°	15.7	15.0	14.1	14.0	14.8	15.9	16.1	14.8	14.3	14.1
170°	14.7	14.8	14.8	14.3	14.5	15.4	15.7	15.4	14.7	14.5
172.5°	14.0	14.3	15.0	14.7	14.7	15.0	15.4	15.0	14.5	14.3
175°	13.2	13.4	13.1	13.2	13.8	14.3	14.1	14.0	13.8	13.8
177.5°	12.0	12.0	12.2	12.2	12.4	12.9	13.1	13.1	13.4	13.4
180°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2

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

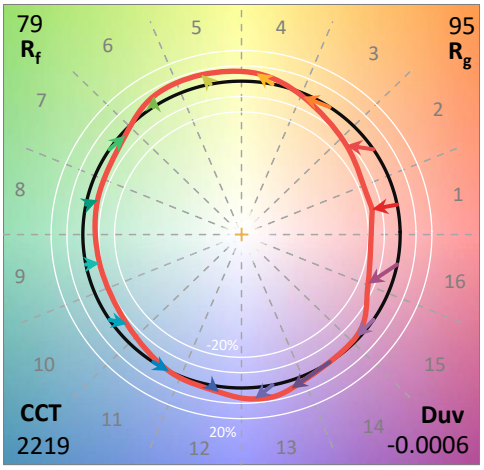
Test Information

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

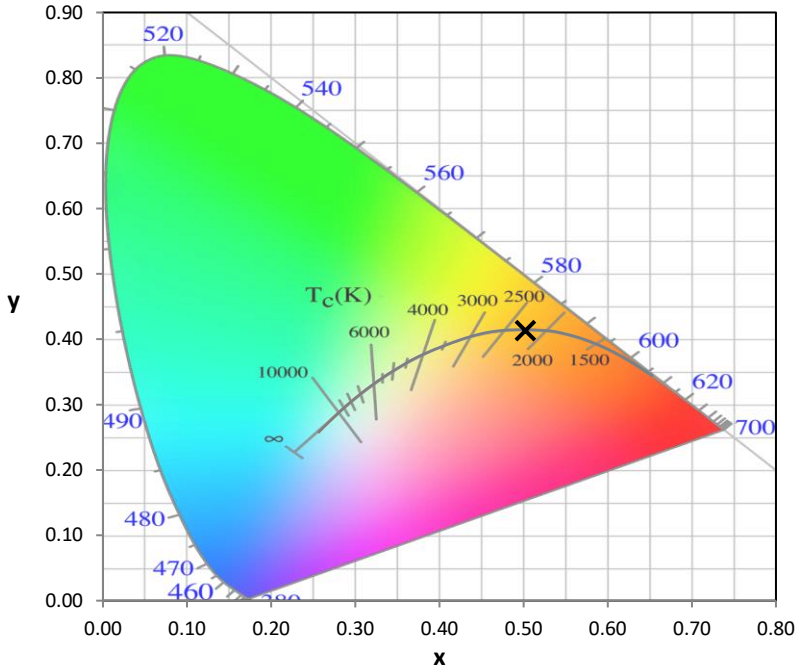
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

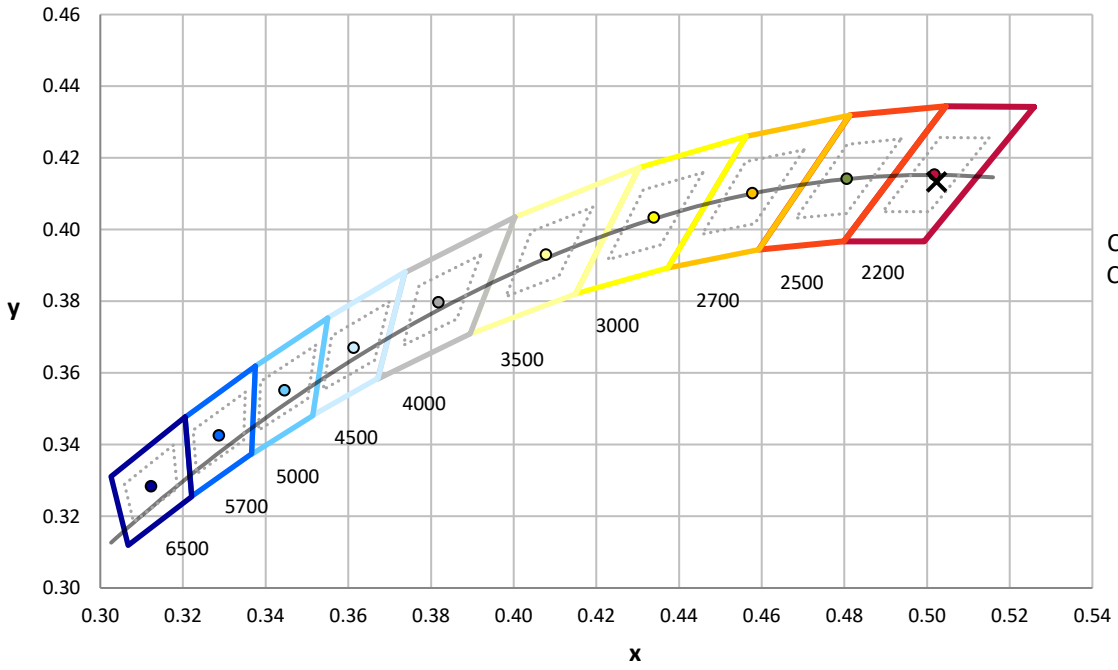
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

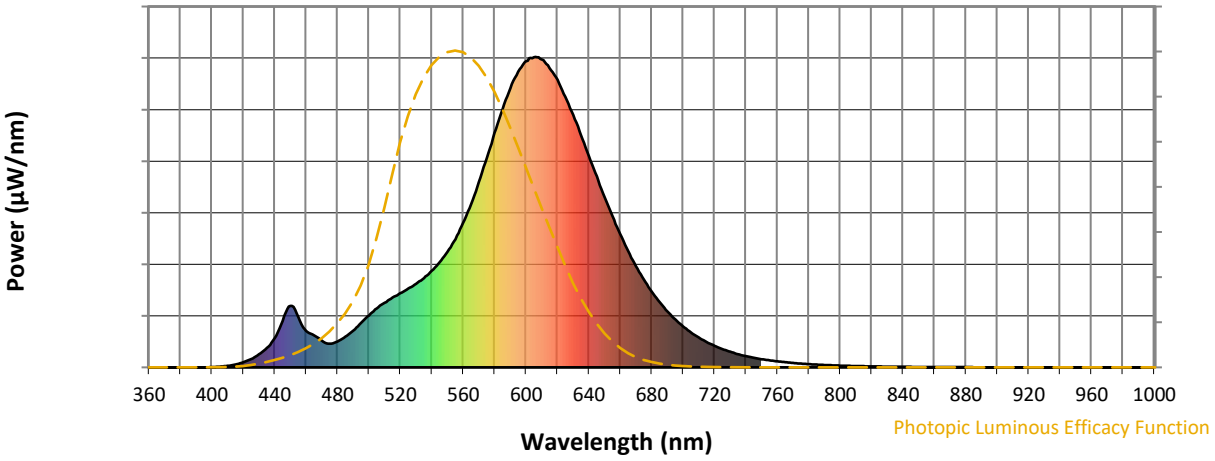


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

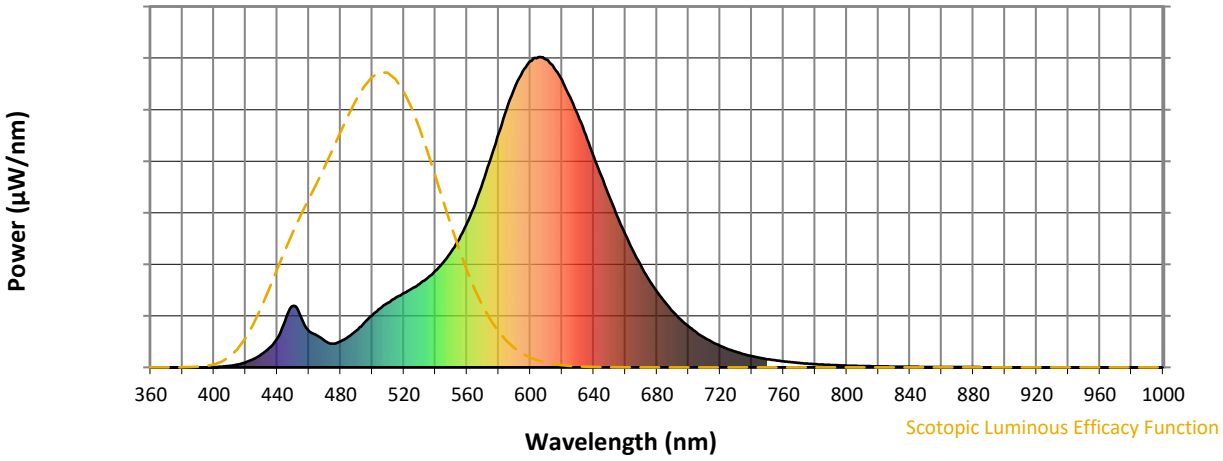


Photopic Lumens: NR

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

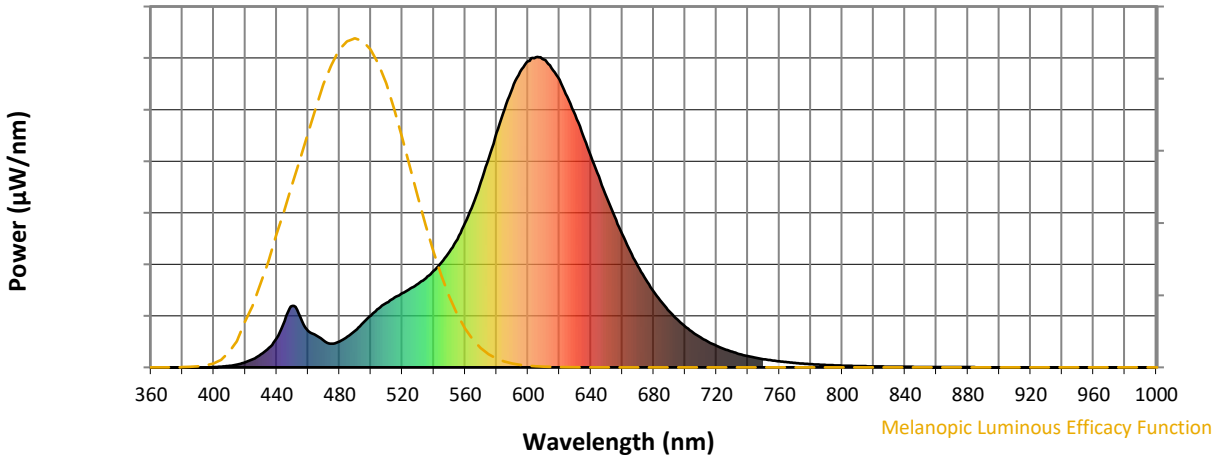


Scotopic Lumens: NR **S/P: 0.94**

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			

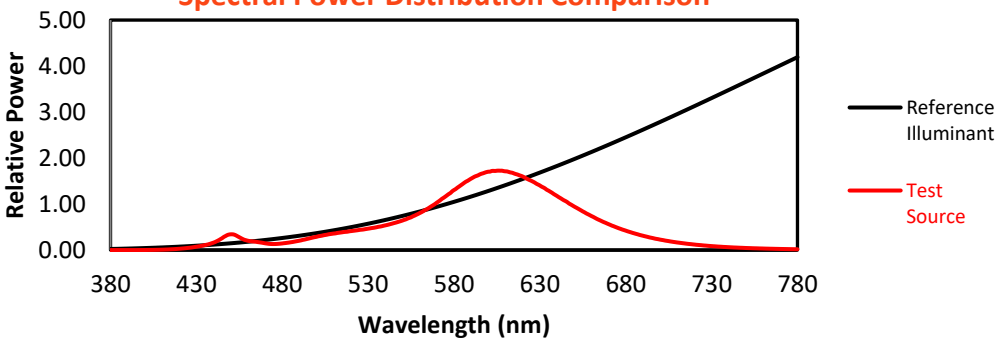
REPORT NUMBER: SP1-2501-332-2

TM-30-18

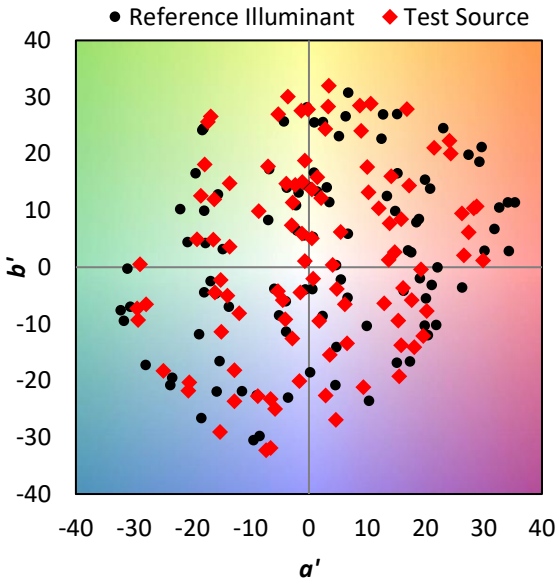
Summary

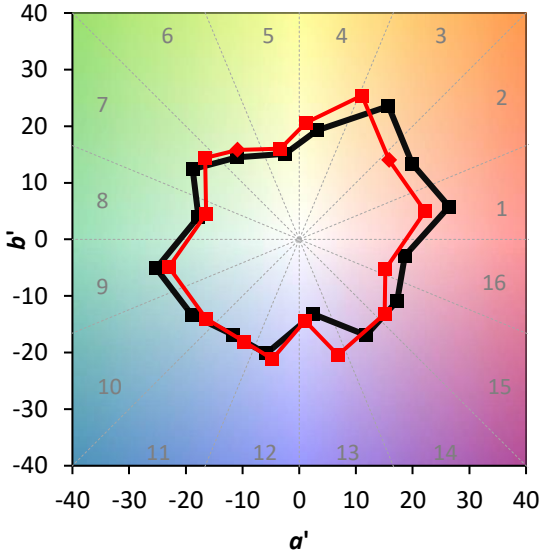
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

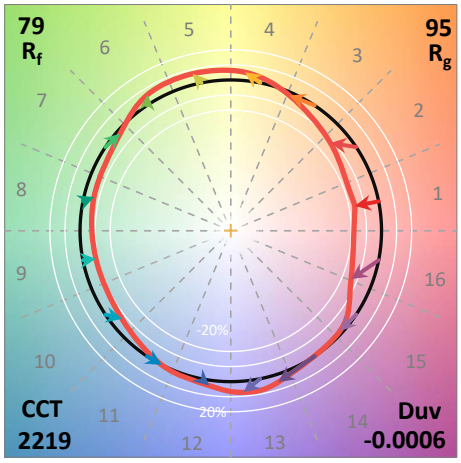
Spectral Power Distribution Comparison

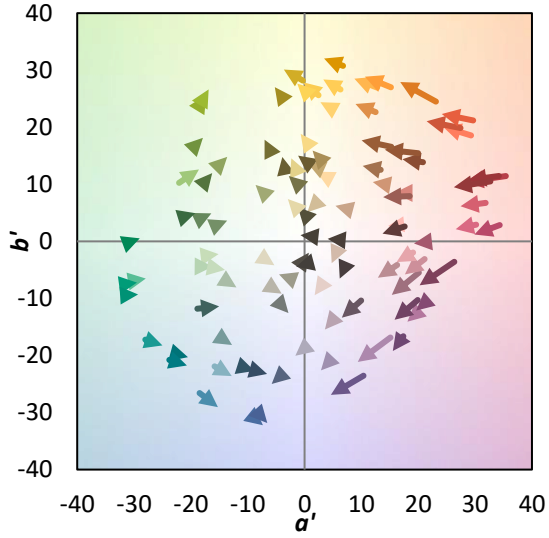


Color Vector Graphics







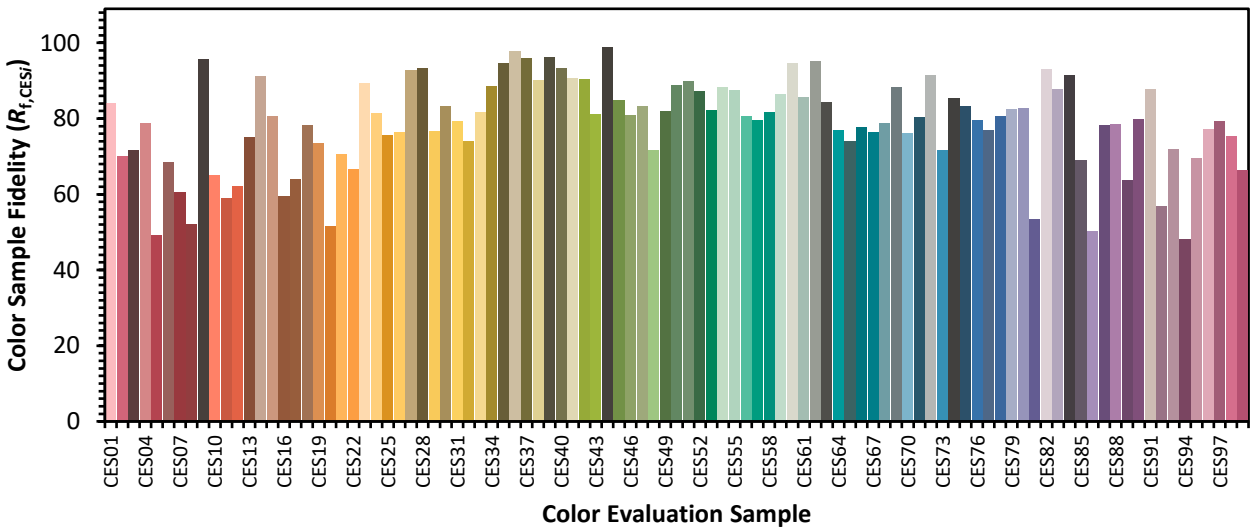


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

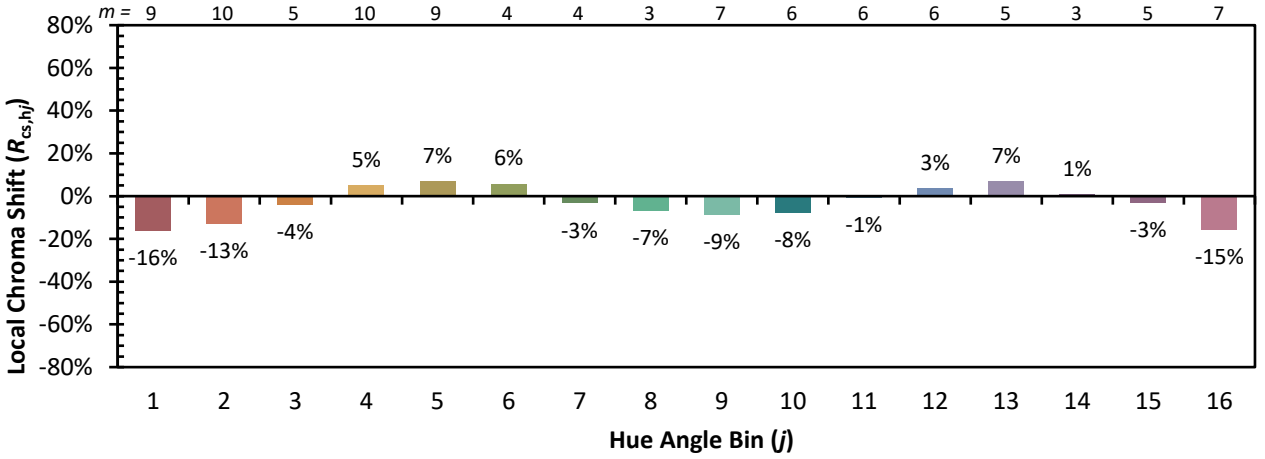
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

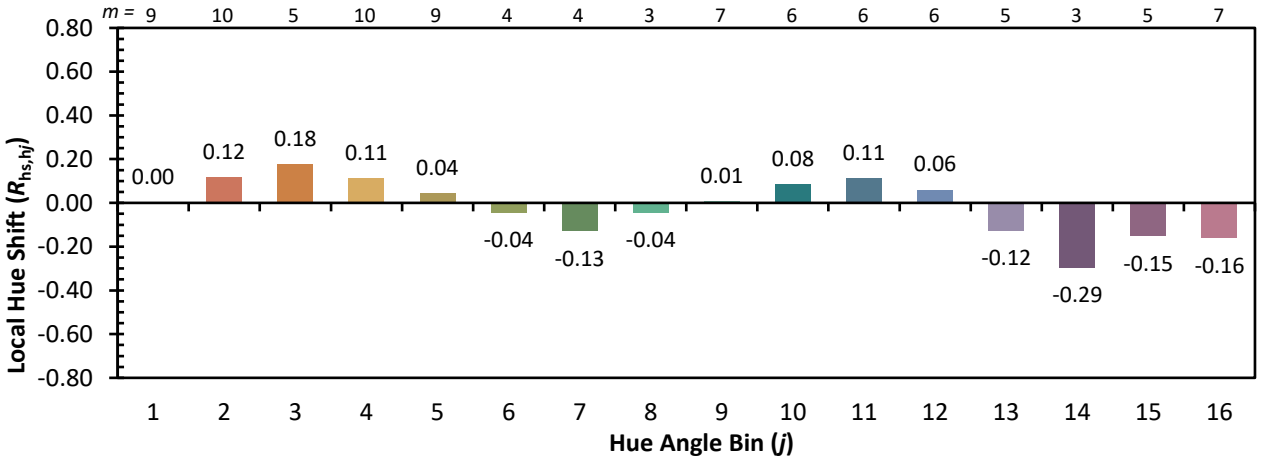


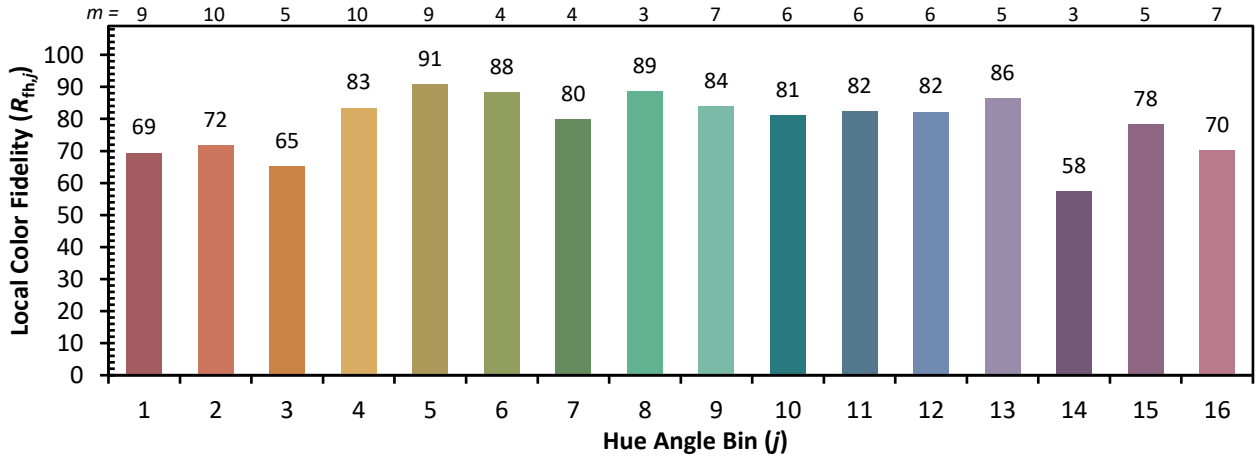
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



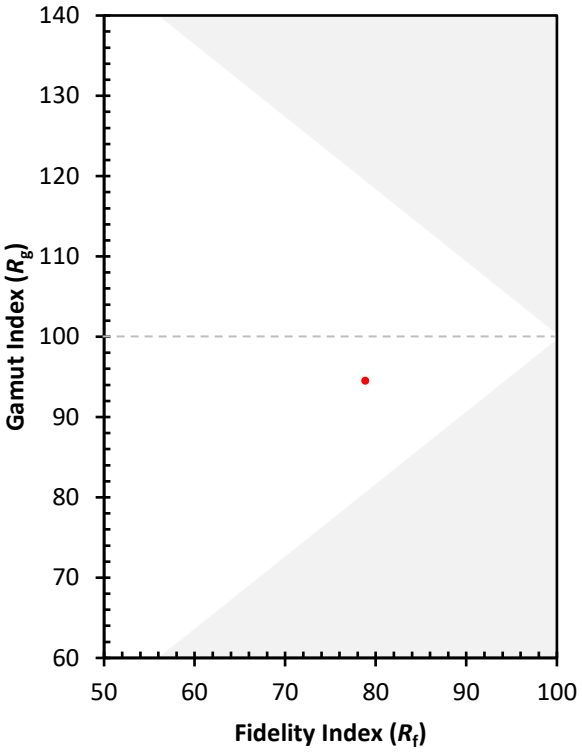


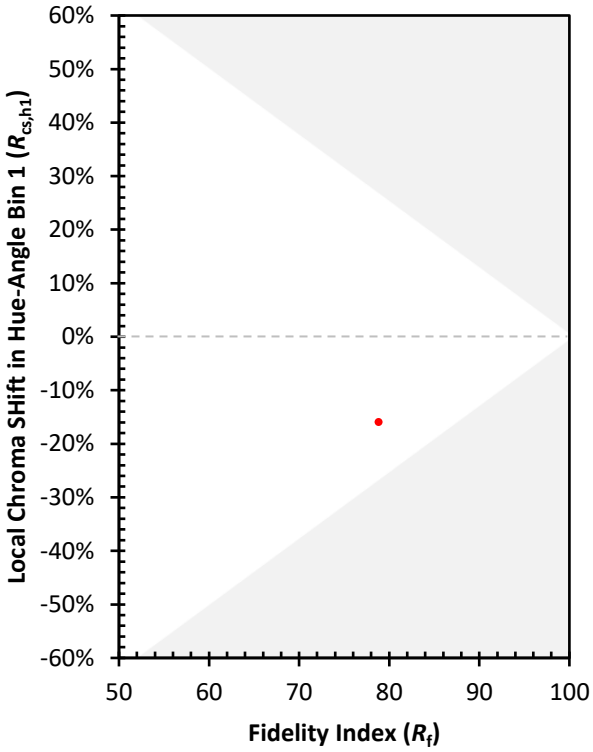


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TM-30-18

Measure Comparisons





(END OF REPORT)