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: P981414

Luminaire Tested: **FFX-CLB-20-722-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:	P981414
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
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:	2682.4 lumens
Efficiency:	N/A
Efficacy:	135.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type III - Short
BUG Rating:	B1 - U3 - G2

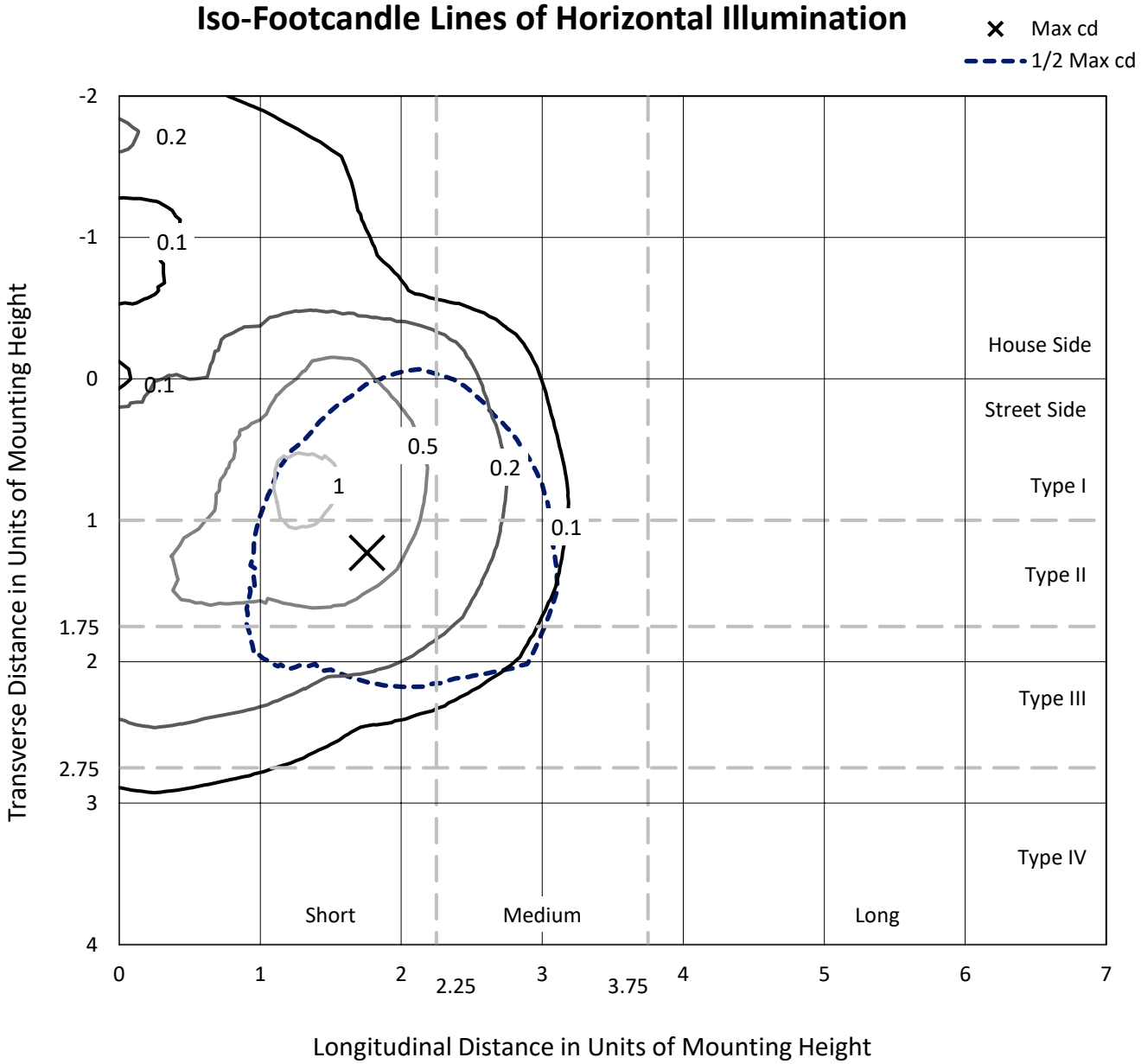
Input Watts (W):	19.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.1%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



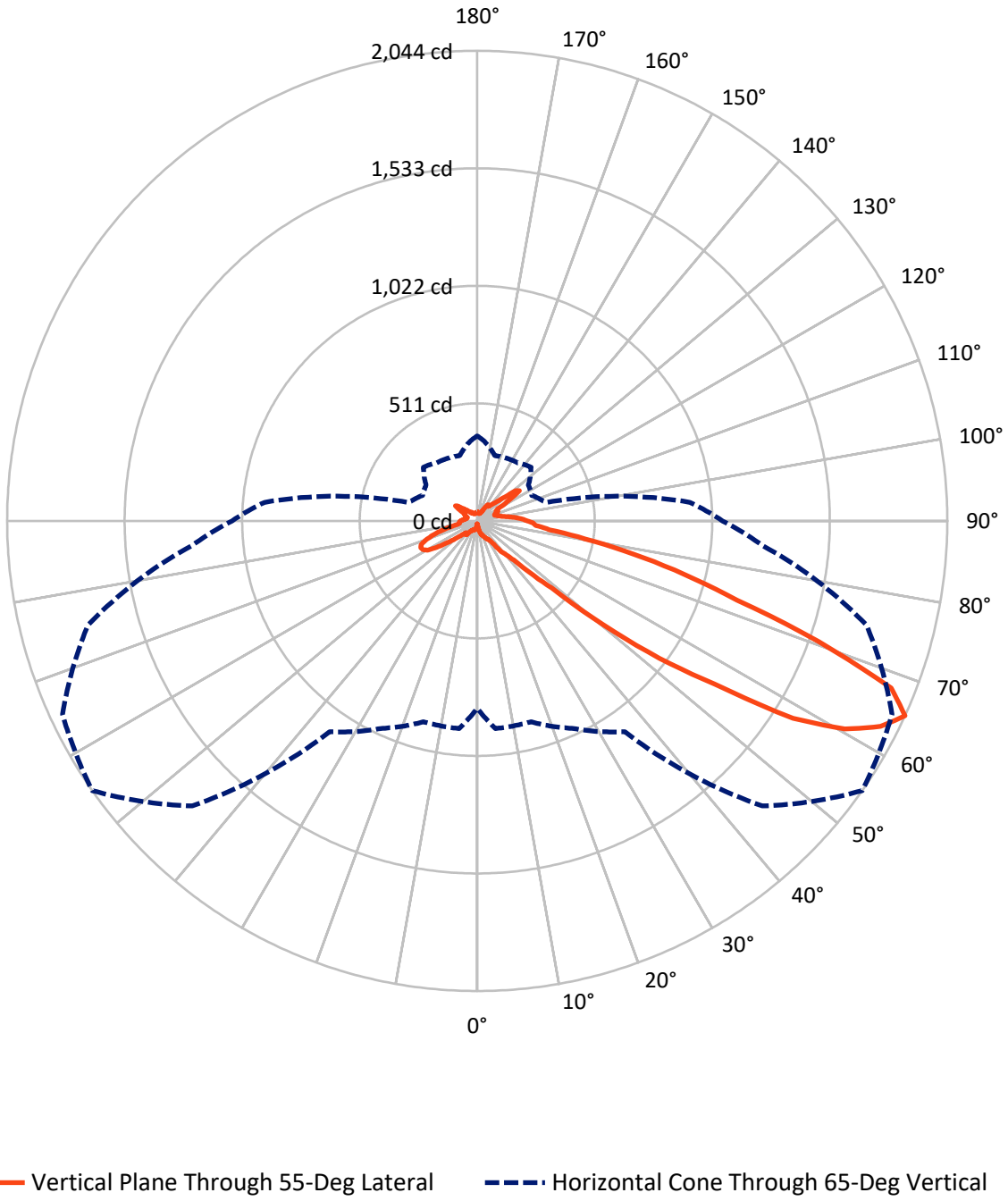
Based on 15 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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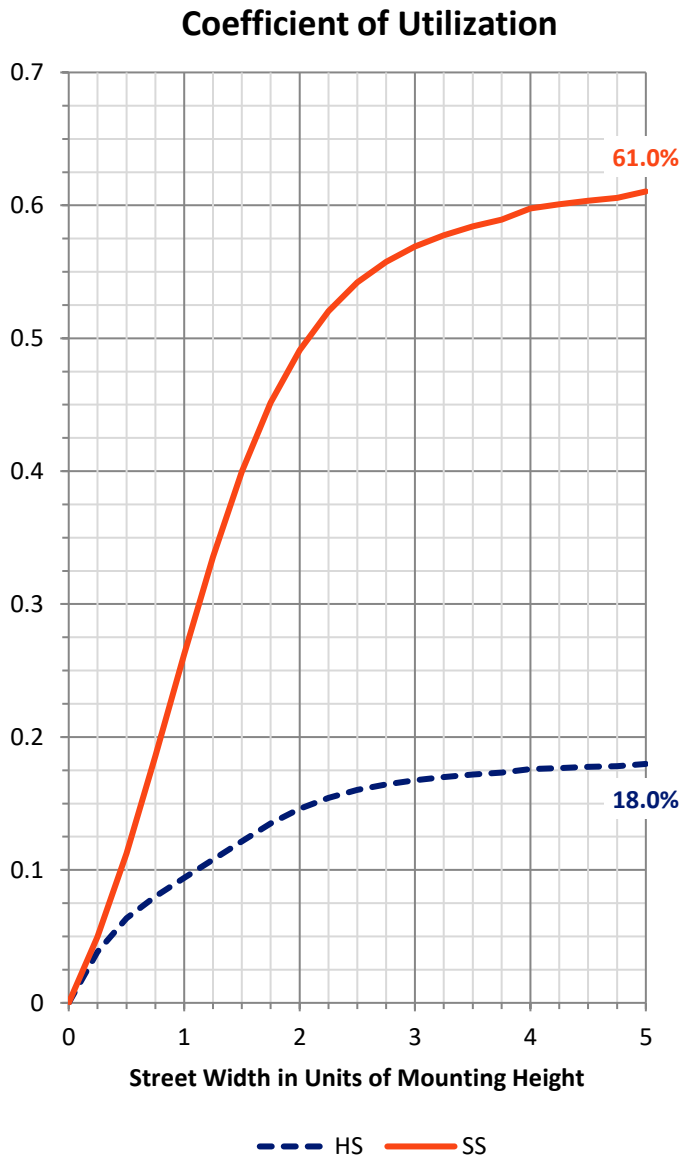
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.8	180.1	682.9
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	1690.5	309.0	1999.5
	% Fixture	63.0	11.5	74.5
Total	Lumens	2193.3	489.2	2682.4
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.1
10°-20°	13.6	0.5
20°-30°	28.0	1.0
30°-40°	58.7	2.2
40°-50°	154.9	5.8
50°-60°	515.3	19.2
60°-70°	831.3	31.0
70°-80°	436.0	16.3
80°-90°	153.0	5.7
90°-100°	98.8	3.7
100°-110°	64.1	2.4
110°-120°	70.3	2.6
120°-130°	118.2	4.4
130°-140°	69.2	2.6
140°-150°	37.0	1.4
150°-160°	18.4	0.7
160°-170°	9.7	0.4
170°-180°	3.5	0.1
0°-90°	2193.3	81.8
0°-180°	2682.4	100.0



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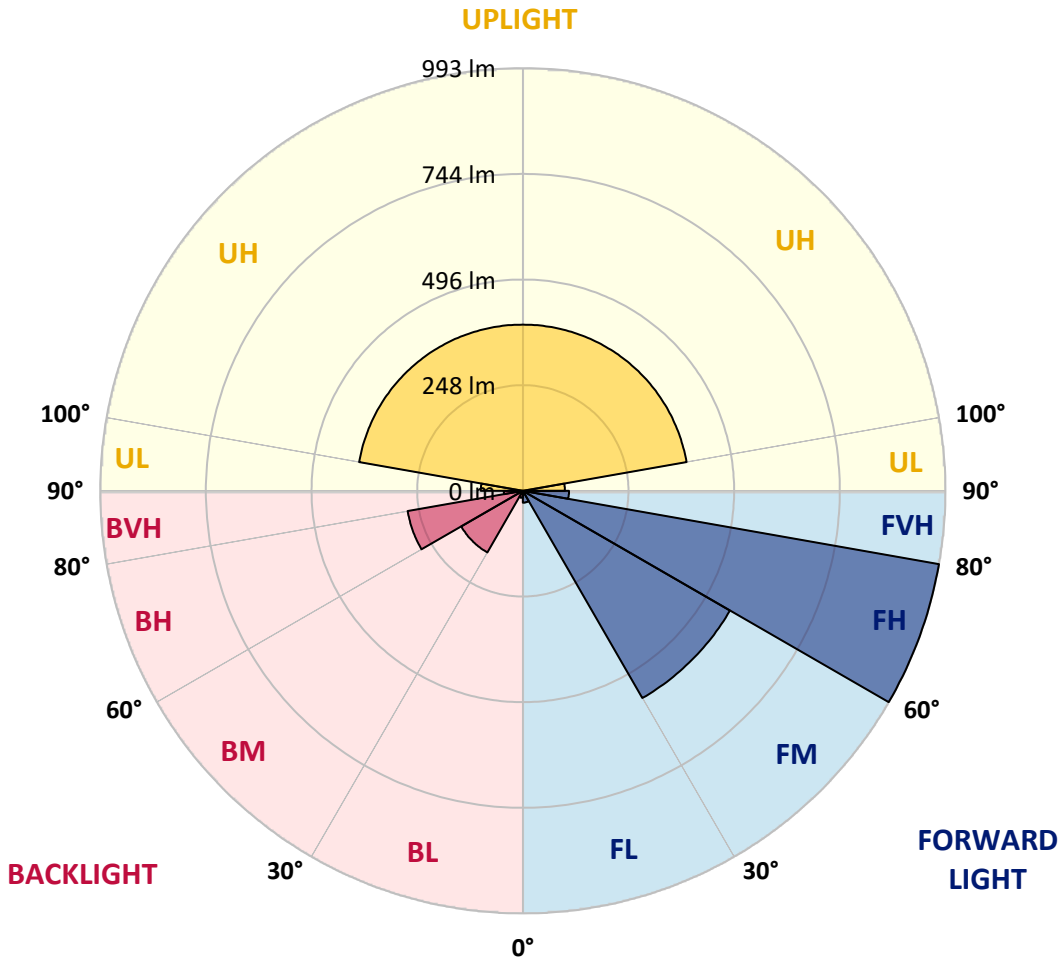
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	27.8	1.0			
FM	(30°-60°)	561.8	20.9			
FH	(60°-80°)	992.6	37.0			G1/1800
FVH	(80°-90°)	108.3	4.0			G2/225
BL	(0°-30°)	16.3	0.6	B0/110		
BM	(30°-60°)	167.1	6.2	B0/220		
BH	(60°-80°)	274.7	10.2	B1/500		G1/500
BVH	(80°-90°)	44.7	1.7			G1/100
UL	(90°-100°)	98.8	3.7		U3/500	
UH	(100°-180°)	390.4	14.6		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°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	15.2	15.5	16.4	16.8	17.0	16.6	15.9	16.6	16.6	16.6	16.4
5°	22.1	22.1	22.1	22.6	22.8	23.1	22.8	21.9	21.2	20.5	20.3
7.5°	30.9	31.3	31.4	31.4	31.4	32.1	32.9	31.3	29.9	28.4	28.1
10°	44.3	43.5	42.6	42.9	42.2	40.8	41.5	40.3	37.1	36.0	36.0
12.5°	56.7	56.5	56.9	54.9	53.9	50.9	51.2	50.5	48.2	44.5	43.3
15°	63.6	64.1	63.9	64.6	63.1	58.8	57.8	58.1	56.0	52.5	50.7
17.5°	67.1	67.1	67.3	68.2	68.2	64.1	62.4	61.5	59.7	56.7	54.4
20°	68.9	68.9	68.7	69.9	72.4	70.1	67.7	66.2	64.6	59.9	56.3
22.5°	73.8	73.5	73.0	73.3	77.0	76.3	74.4	72.2	69.9	62.7	58.3
25°	79.0	79.1	77.5	78.1	81.8	82.8	81.3	79.1	76.5	65.5	61.1
27.5°	84.8	84.6	82.5	83.2	85.1	89.0	87.1	86.0	81.6	67.8	63.6
30°	90.1	89.2	87.1	88.8	88.8	95.0	93.3	93.8	88.3	72.1	67.5
32.5°	94.0	93.8	92.6	94.9	93.6	101.6	101.0	105.5	97.3	80.4	76.1
35°	102.8	103.0	108.1	112.5	110.4	122.1	124.5	130.2	120.3	101.0	96.4
37.5°	166.4	164.3	157.2	149.1	150.1	171.9	168.9	171.9	156.7	128.9	121.7
40°	175.2	175.8	167.6	161.4	160.6	188.3	192.9	217.3	185.5	154.6	140.2
42.5°	170.6	172.4	194.7	202.6	195.5	230.9	232.3	279.3	216.4	190.6	171.7
45°	216.4	216.7	221.3	226.4	227.3	315.3	320.2	372.2	275.2	240.0	208.1
47.5°	246.2	249.1	255.4	290.4	308.9	403.1	436.1	518.6	366.5	327.3	264.2
50°	348.2	355.9	387.4	417.4	446.4	597.7	708.8	807.2	550.6	479.7	384.0
52.5°	424.3	452.2	487.3	559.8	590.3	816.9	991.5	1052.4	771.2	650.2	523.2
55°	490.3	541.6	579.5	698.1	756.2	1065.1	1251.3	1260.1	1034.9	793.6	670.9
57.5°	626.4	701.1	725.8	827.2	908.1	1360.6	1619.2	1575.8	1304.1	957.0	828.4
60°	754.4	840.4	831.3	924.7	1031.7	1614.8	1837.0	1814.9	1556.3	1111.7	966.2
62.5°	796.1	883.4	875.6	973.8	1117.8	1733.3	1967.7	1931.2	1705.2	1208.5	1035.4
65°	814.3	906.3	904.2	996.1	1118.8	1752.2	2043.9	1989.5	1752.1	1247.6	1065.8
67.5°	798.7	886.4	885.5	970.1	1037.2	1615.2	1940.9	1860.7	1636.7	1155.7	1000.3
70°	689.2	750.2	746.5	798.4	833.5	1283.8	1575.1	1514.5	1320.9	949.8	828.6
72.5°	562.1	580.1	587.8	617.5	626.9	939.5	1181.2	1132.9	984.9	711.3	628.3
75°	448.8	449.7	457.8	468.3	465.1	691.2	930.3	900.5	726.3	530.6	476.6
77.5°	297.1	294.8	330.5	334.7	314.4	440.4	694.7	673.7	519.8	386.7	348.5
80°	170.5	171.2	195.5	210.9	202.8	279.8	476.0	471.4	357.0	270.6	239.3
82.5°	127.2	133.2	146.3	154.4	151.2	210.4	316.7	325.4	253.6	194.7	177.9
85°	141.7	145.0	146.4	147.0	143.1	196.8	255.8	255.2	213.2	163.4	157.7
87.5°	138.0	140.8	142.0	142.7	138.8	188.1	241.6	238.1	204.5	157.0	148.7
90°	116.1	122.6	122.4	128.6	124.2	165.3	212.0	209.7	185.6	144.7	135.0
92.5°	97.3	101.0	103.5	112.0	108.1	145.5	190.6	185.3	166.2	131.6	121.2
95°	91.0	94.3	96.3	101.0	96.3	125.8	160.6	155.8	138.0	109.7	99.6
97.5°	76.7	77.7	79.5	82.7	79.5	101.9	130.0	125.4	110.8	89.6	82.5
100°	65.0	66.1	68.4	70.7	69.1	87.3	108.8	106.3	95.2	77.9	73.1
102.5°	61.5	62.2	65.2	66.6	64.6	80.2	96.1	96.1	86.2	71.9	68.0
105°	58.6	59.5	61.8	62.4	60.9	73.8	88.7	87.8	80.0	67.3	63.6
107.5°	55.8	56.9	58.8	57.9	57.2	68.0	79.7	81.1	74.4	63.9	61.5
110°	58.8	59.2	60.8	59.3	60.6	67.7	80.0	80.4	78.4	69.8	67.1

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REPORT NUMBER: P981414
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	80.0	78.1	81.4	76.1	80.2	85.1	*92.9*	95.7	93.4	83.5	81.3
115°	87.6	89.0	92.6	87.3	89.9	95.9	*99.6*	100.2	97.5	91.1	90.3
117.5°	68.4	75.4	71.7	74.9	76.0	84.3	*92.7*	95.2	92.7	83.9	89.4
120°	87.4	93.1	80.4	76.5	81.8	96.3	*104.0*	106.2	99.4	99.6	103.0
122.5°	145.0	148.2	156.1	160.2	154.0	162.9	*165.5*	167.5	157.2	145.2	139.2
125°	220.1	217.8	216.7	215.7	214.1	223.4	*225.2*	220.3	210.0	193.2	183.9
127.5°	199.1	201.0	204.0	203.7	202.2	209.5	*213.9*	210.9	208.1	192.0	186.5
130°	143.3	144.1	149.4	159.0	157.9	163.7	*164.3*	167.3	172.0	165.0	159.3
132.5°	118.7	119.6	127.5	131.8	132.1	132.3	*129.8*	136.7	141.7	134.6	129.8
135°	103.5	103.5	105.3	103.7	104.2	108.8	*110.9*	117.1	118.3	115.0	110.2
137.5°	91.5	91.9	88.1	85.1	85.7	94.0	*98.7*	103.5	101.0	94.1	90.8
140°	79.7	77.7	72.6	71.7	75.6	83.5	*86.4*	89.7	90.4	81.6	77.2
142.5°	58.6	57.9	60.2	65.0	67.1	80.4	*78.2*	84.6	85.0	70.1	62.9
145°	65.5	65.4	65.2	66.1	71.0	90.3	*85.1*	93.3	97.2	74.5	60.9
147.5°	74.0	73.8	72.2	70.3	77.7	82.5	*77.9*	85.0	89.2	74.0	59.0
150°	57.2	57.6	56.7	56.2	64.3	63.4	*62.4*	64.3	66.1	61.3	53.7
152.5°	44.5	43.8	43.3	43.5	50.2	49.1	*49.1*	50.5	50.7	48.9	45.0
155°	40.1	39.9	39.6	40.3	44.3	43.3	*42.4*	42.0	41.2	40.6	40.1
157.5°	37.6	37.3	37.3	38.3	41.2	39.4	*39.0*	38.7	38.2	38.2	38.3
160°	35.2	35.0	35.0	36.6	37.4	35.9	*35.5*	35.3	35.2	35.5	35.9
162.5°	33.7	33.7	33.7	34.8	34.8	33.7	*33.4*	33.2	33.4	34.6	34.8
165°	33.2	33.0	33.2	33.7	33.6	32.9	*32.7*	32.7	33.2	34.3	34.4
167.5°	34.1	34.1	34.1	34.3	34.1	33.4	*33.2*	33.2	33.7	34.6	34.6
170°	35.5	35.3	35.3	35.3	35.2	34.4	*34.1*	34.3	34.4	35.0	35.0
172.5°	36.7	36.7	36.6	36.4	36.0	35.7	*35.3*	35.3	35.3	35.5	35.5
175°	38.2	38.2	38.2	38.0	38.0	37.4	*37.3*	37.1	36.9	36.7	36.6
177.5°	39.7	39.6	39.6	39.6	39.6	39.0	*38.7*	38.5	38.2	38.0	38.0
180°	39.0	39.0	39.0	39.0	39.0	39.0	*39.0*	39.0	39.0	39.0	39.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
2.5°	16.4	15.9	15.0	13.4	12.9	12.4	11.8	10.8	10.2	9.9
5°	20.1	19.4	19.3	18.4	17.1	16.1	15.9	15.5	15.4	14.8
7.5°	28.8	29.1	30.0	28.4	24.9	23.0	23.5	25.4	24.7	24.6
10°	36.2	38.5	40.3	36.2	29.9	25.8	26.0	29.9	30.2	30.9
12.5°	42.4	44.3	44.0	38.9	32.9	29.0	27.7	29.9	31.8	32.0
15°	49.1	45.7	44.5	40.3	36.0	33.0	32.5	33.0	33.0	32.7
17.5°	51.9	46.1	42.6	39.0	36.0	33.9	33.2	32.3	31.1	31.1
20°	52.6	47.5	43.5	39.7	36.7	34.4	32.5	31.4	31.1	31.1
22.5°	54.8	50.2	45.9	41.5	38.3	35.3	33.0	32.0	32.0	32.1
25°	57.8	53.5	48.2	43.6	40.3	37.1	34.1	32.5	32.3	32.5
27.5°	61.5	57.1	51.2	46.3	42.4	38.9	35.2	33.2	32.5	32.5
30°	65.7	60.6	54.1	48.6	44.3	41.2	36.6	33.9	33.0	32.7
32.5°	73.3	67.5	57.6	51.6	46.8	43.3	38.7	35.3	33.6	33.2
35°	92.0	83.0	70.1	59.2	51.9	45.7	40.3	36.2	33.9	33.6
37.5°	112.3	98.7	86.6	74.4	63.8	53.7	43.3	37.6	34.8	34.3
40°	125.1	107.2	96.4	78.2	76.8	68.5	53.2	41.5	36.6	35.9
42.5°	151.2	124.5	107.4	69.1	75.1	76.8	67.1	52.1	41.3	40.1
45°	182.1	146.4	120.5	73.8	77.4	75.2	68.7	60.4	51.6	49.1
47.5°	236.0	167.1	125.1	85.7	88.5	82.7	73.0	64.3	57.8	56.9
50°	340.6	227.9	140.8	105.3	113.8	97.5	85.0	78.2	69.4	68.4
52.5°	475.2	274.3	158.1	136.2	155.4	135.3	115.0	101.4	99.4	100.2
55°	621.1	288.6	180.9	168.3	202.1	183.2	159.9	146.8	159.7	163.7
57.5°	765.7	310.2	213.9	210.0	252.9	224.2	205.8	211.4	265.1	278.0
60°	879.6	328.5	241.8	250.1	303.3	272.0	264.2	272.5	364.8	399.0
62.5°	924.3	320.2	256.3	267.1	327.0	305.6	302.9	310.9	388.6	422.3
65°	*927.7*	*307.5*	*262.0*	*271.7*	*330.7*	*307.9*	*300.6*	*293.9*	*348.0*	*369.3*
67.5°	858.5	282.1	255.1	265.1	314.2	284.0	269.0	253.8	281.6	293.4
70°	692.1	250.1	233.5	239.3	264.2	236.3	215.8	205.4	215.3	214.4
72.5°	524.3	220.3	209.8	204.0	215.8	193.2	170.6	160.6	169.4	167.1
75°	400.4	196.6	186.9	167.5	178.9	148.4	123.5	116.6	120.8	119.2
77.5°	289.0	157.6	144.7	123.3	138.1	107.9	82.8	77.9	79.0	75.6
80°	208.1	117.5	104.9	89.7	101.6	77.2	61.5	60.4	60.9	57.4
82.5°	163.4	94.1	85.8	77.7	81.4	69.8	59.2	58.1	58.6	54.8
85°	152.3	92.2	83.5	78.2	79.5	68.7	57.4	57.1	57.9	53.7
87.5°	143.6	91.3	84.4	76.8	73.8	63.1	53.2	54.8	57.2	52.8
90°	126.6	85.1	79.1	72.2	69.1	59.2	53.2	55.5	55.3	52.1
92.5°	111.6	76.0	71.2	67.3	66.6	60.2	55.6	57.8	58.5	55.3
95°	91.5	64.1	61.8	60.6	61.6	55.5	51.6	52.6	51.9	50.2
97.5°	77.9	58.5	56.9	55.1	54.1	49.6	46.3	47.7	48.4	46.8
100°	70.5	55.6	54.4	52.5	52.3	49.3	47.5	50.3	52.5	51.6
102.5°	65.9	52.8	51.2	49.5	48.9	46.5	45.0	46.8	48.8	47.0
105°	62.5	50.2	47.7	46.1	45.2	43.5	41.7	42.4	44.5	43.6
107.5°	59.3	50.0	46.1	44.9	44.9	42.6	40.1	40.3	41.3	41.2
110°	64.3	55.5	48.4	46.6	46.1	45.4	43.6	41.9	40.4	40.4

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

Scaled Data Report

REPORT NUMBER: P981414
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	77.0	68.0	60.8	55.1	52.8	50.2	46.5	43.8	41.9	41.3
115°	82.7	73.0	66.1	59.9	54.6	49.5	46.3	44.3	43.3	44.3
117.5°	77.9	64.5	63.6	57.2	52.3	48.2	47.3	44.2	45.9	45.9
120°	87.6	74.9	73.0	63.8	56.9	51.8	51.2	50.7	48.8	47.9
122.5°	128.1	111.5	103.5	89.9	78.1	67.5	61.5	53.2	47.3	46.1
125°	174.0	152.1	133.0	115.0	97.2	78.2	62.4	50.0	44.0	43.1
127.5°	174.5	152.3	131.2	109.3	89.9	70.1	56.0	47.3	43.1	42.9
130°	153.5	134.1	110.9	89.2	73.5	60.4	50.2	43.1	40.1	39.2
132.5°	122.2	104.9	90.1	76.7	64.6	53.5	44.3	39.4	37.6	37.4
135°	102.8	87.8	77.4	67.5	58.1	48.2	39.7	37.3	36.4	36.0
137.5°	83.9	74.9	68.5	60.6	51.6	43.5	37.8	36.7	36.4	35.7
140°	72.8	66.8	59.9	51.0	44.2	37.4	34.4	35.3	36.2	36.0
142.5°	59.3	54.9	49.8	44.0	39.2	36.2	35.0	35.5	35.5	35.7
145°	56.3	50.5	47.7	44.2	41.0	38.7	35.7	34.6	34.4	34.4
147.5°	52.3	50.0	48.2	45.7	41.0	36.7	33.4	32.9	33.6	33.4
150°	48.9	47.3	45.2	41.3	36.6	33.7	32.0	32.1	33.4	33.6
152.5°	41.5	40.6	39.2	36.7	33.4	32.0	31.1	31.8	32.7	32.9
155°	36.9	36.4	36.0	34.4	32.3	31.4	31.1	31.6	32.5	32.7
157.5°	36.6	35.3	34.8	33.7	32.1	31.3	31.3	31.8	32.3	32.5
160°	35.5	33.9	33.7	32.7	32.3	31.8	32.1	32.3	32.9	32.7
162.5°	34.6	33.6	33.4	32.7	33.0	33.6	33.6	33.7	34.1	33.9
165°	34.3	33.4	33.2	33.2	34.3	35.2	35.3	35.2	35.2	35.2
167.5°	34.6	34.1	33.9	34.3	35.2	36.2	36.4	36.0	35.7	35.5
170°	35.2	35.0	35.2	35.3	35.9	36.6	36.6	36.2	36.2	36.2
172.5°	35.7	36.0	36.2	36.2	36.7	37.1	37.3	37.1	37.1	37.1
175°	36.7	36.9	36.9	37.1	37.6	38.0	38.3	38.3	38.3	38.3
177.5°	38.0	38.0	38.0	38.2	38.3	38.9	39.0	39.4	39.6	39.6
180°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0

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

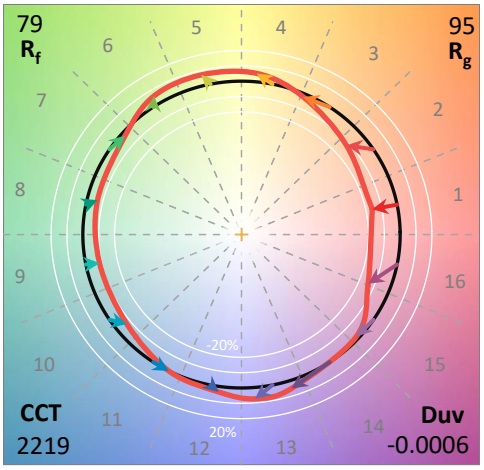
Test Information

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

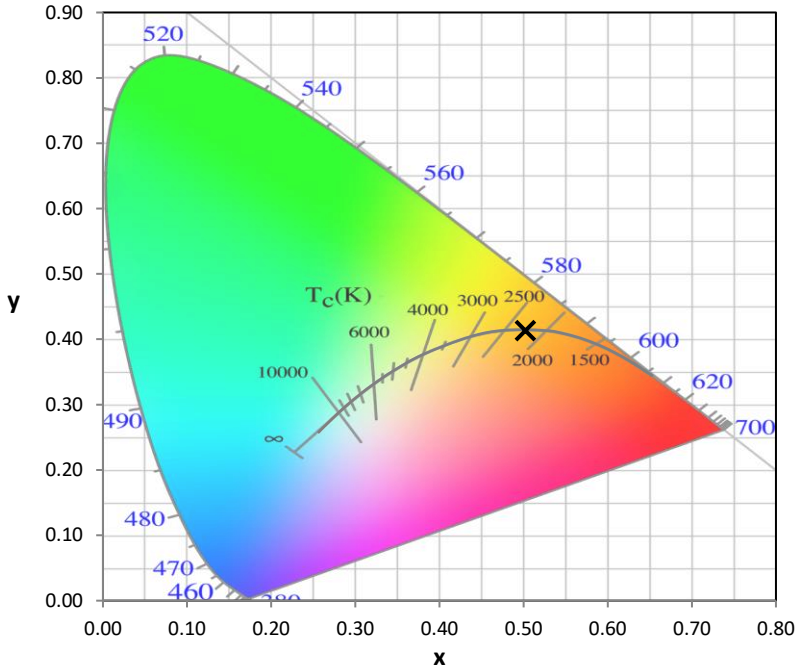
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

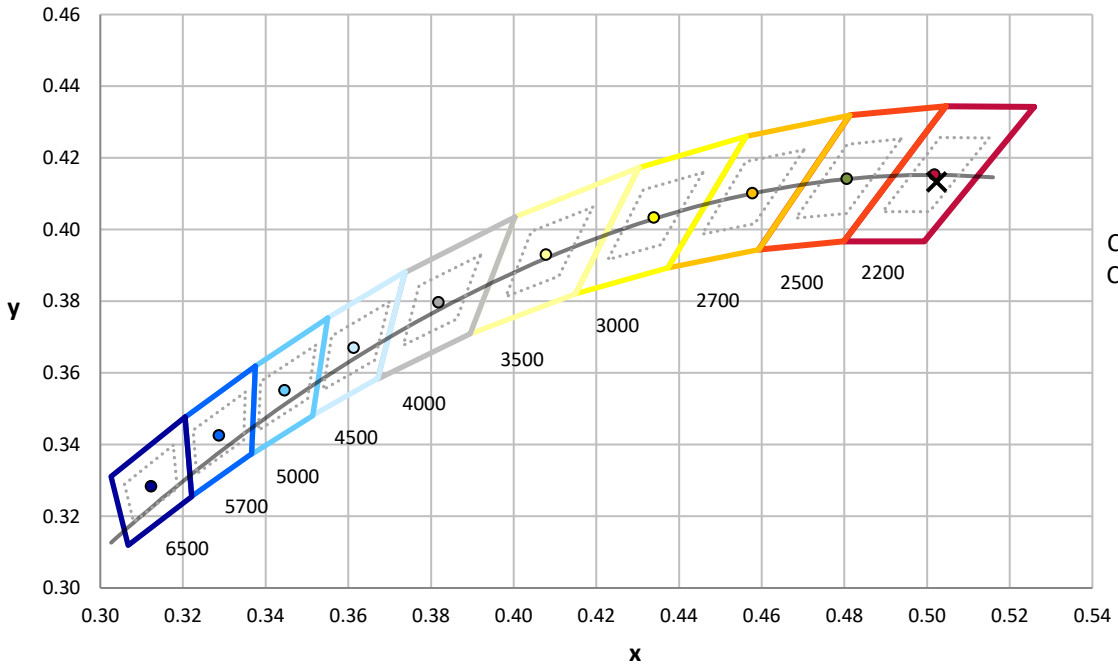
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

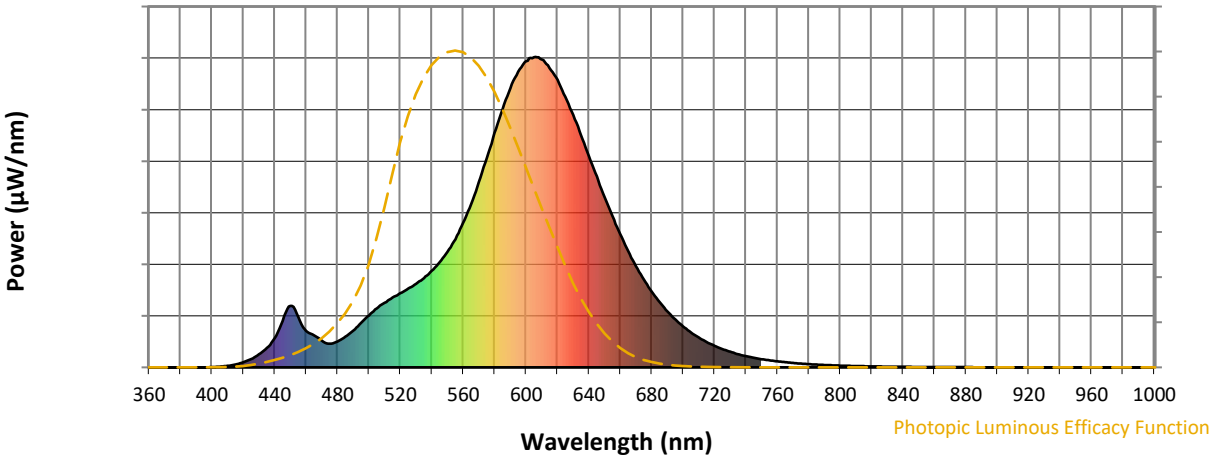


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

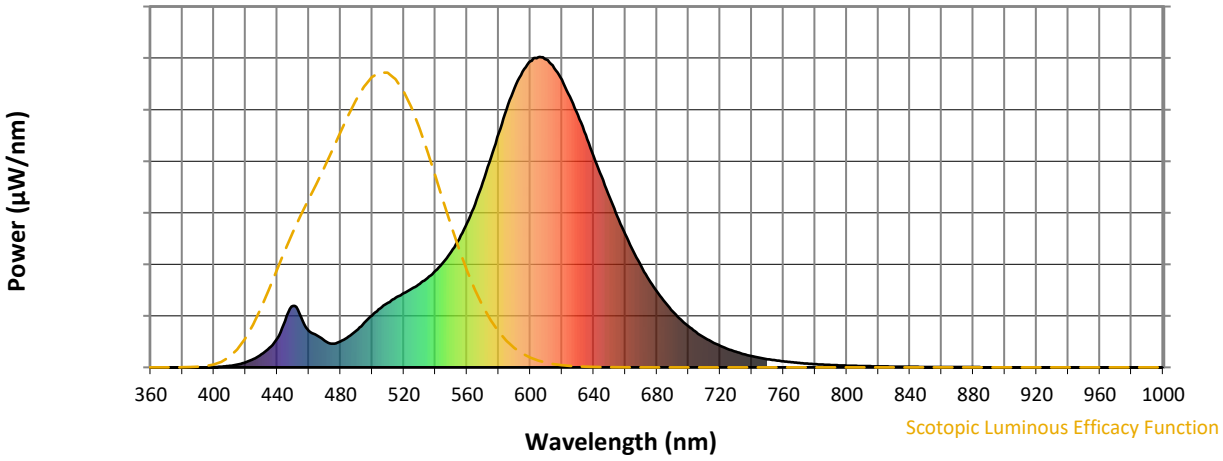


Photopic Lumens: NR

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

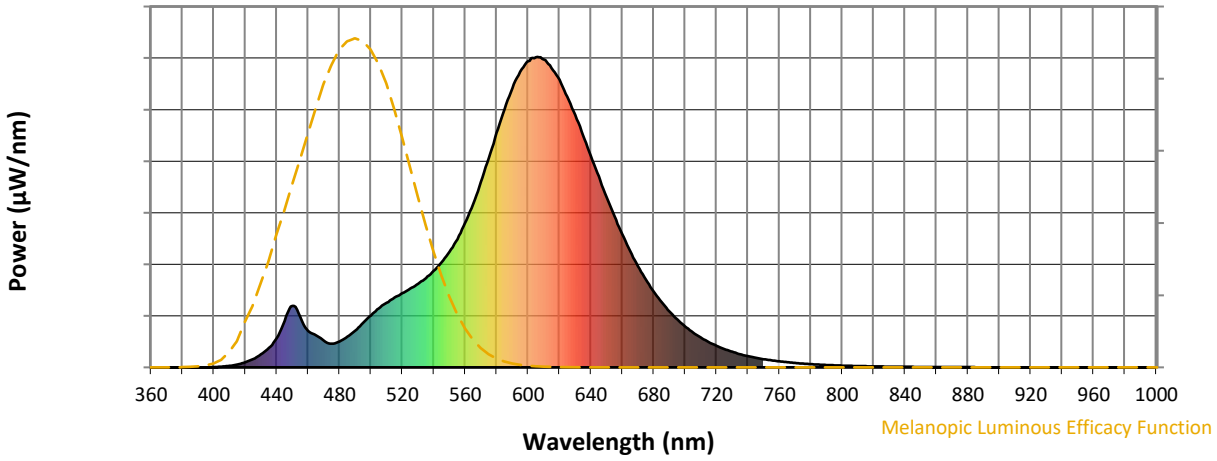


Scotopic Lumens: NR **S/P: 0.94**

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			

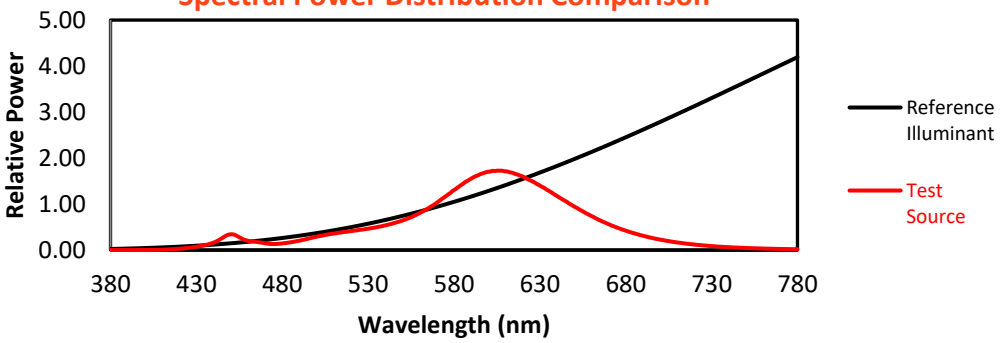
REPORT NUMBER: SP1-2501-332-2

TM-30-18

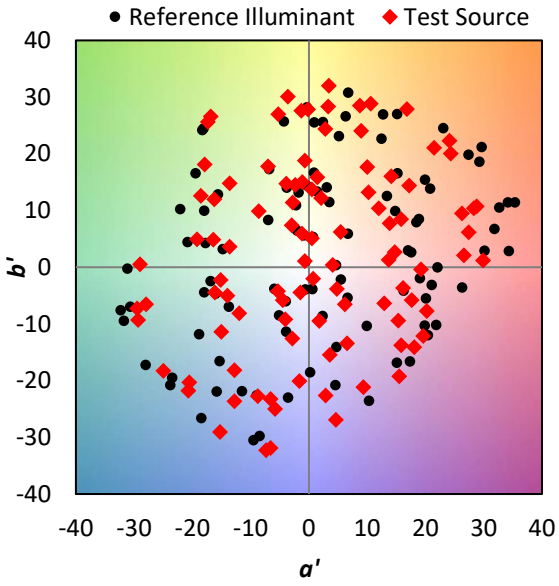
Summary

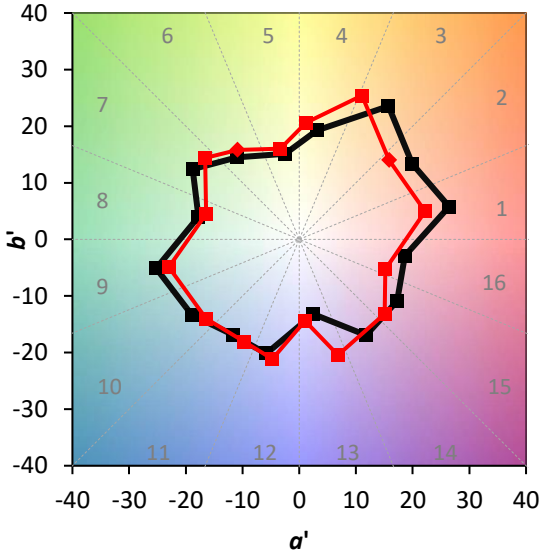
R_f = 78.8
R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

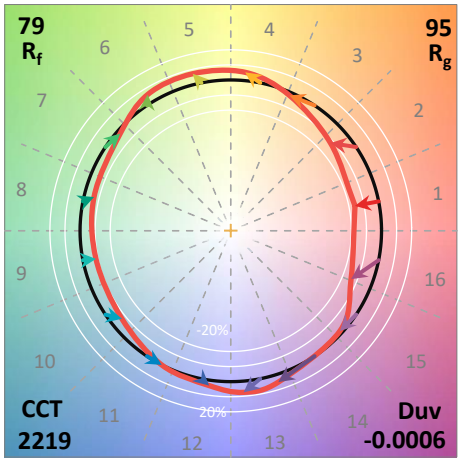
Spectral Power Distribution Comparison

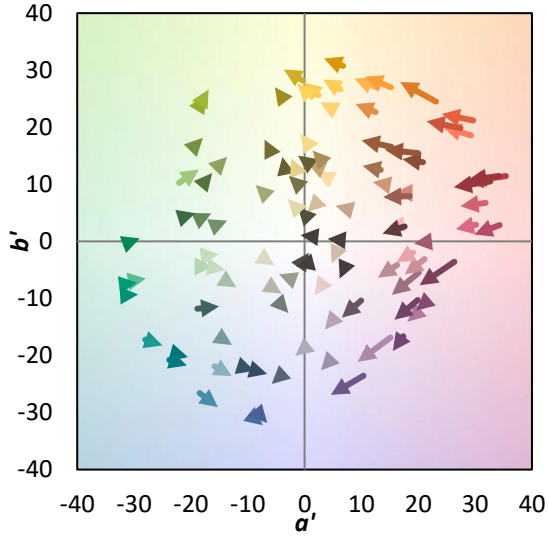


Color Vector Graphics







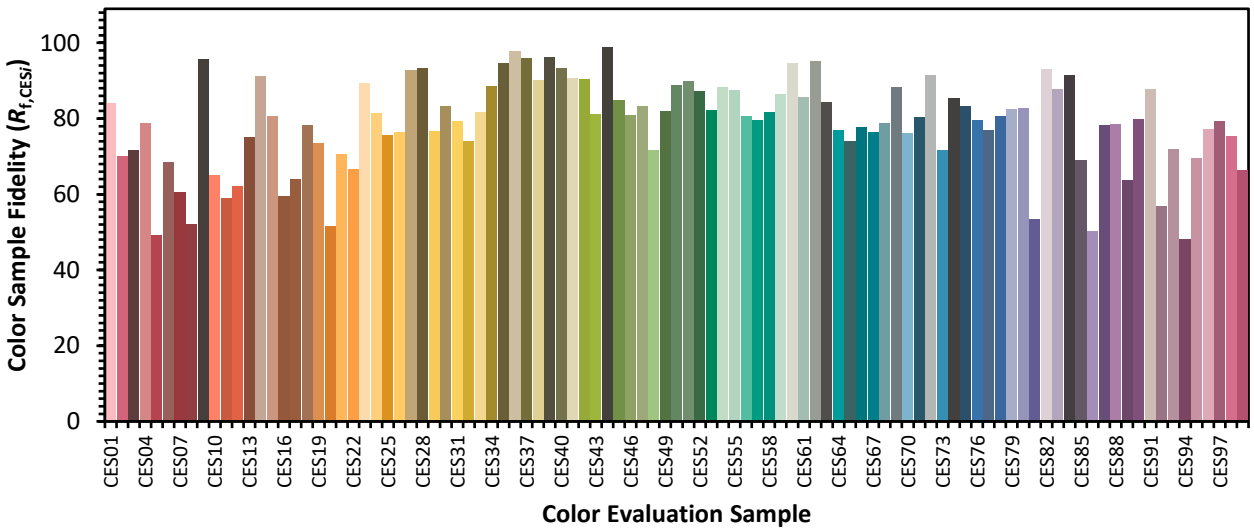


REPORT NUMBER: SP1-2501-332-2

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

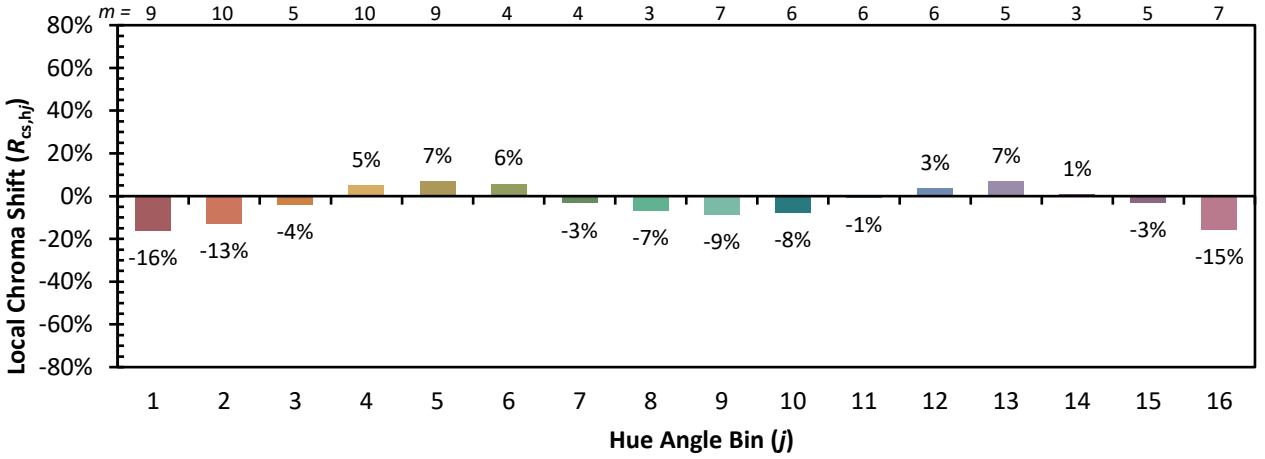
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57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

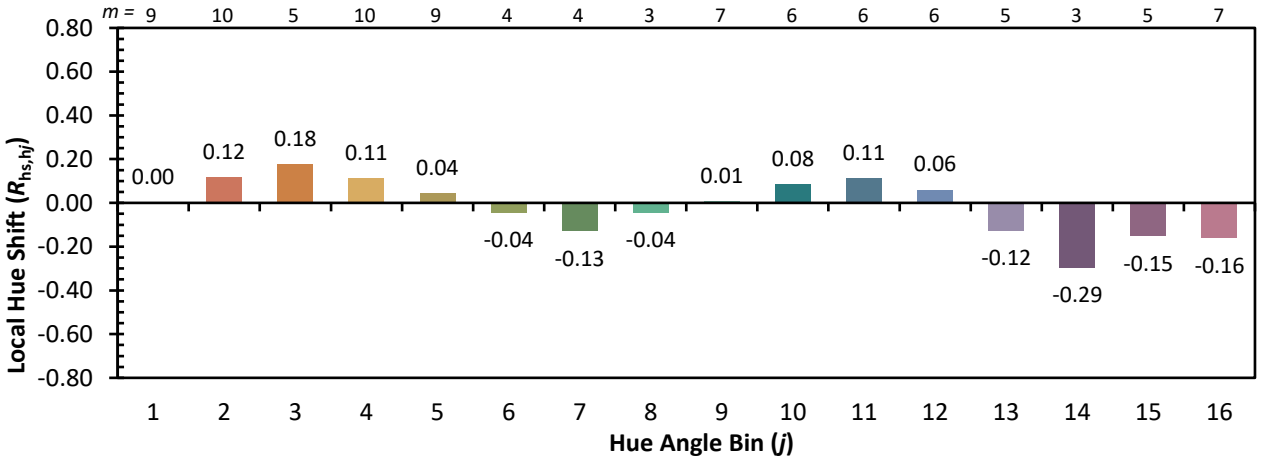


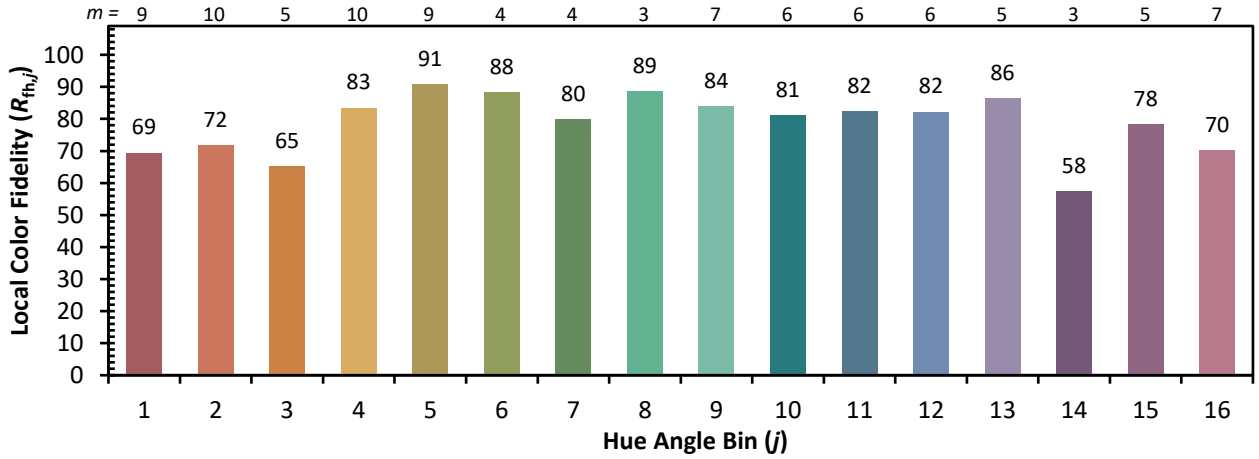
REPORT NUMBER: SP1-2501-332-2

TM-30-18

Color Rendition by Hue-Angle Bin



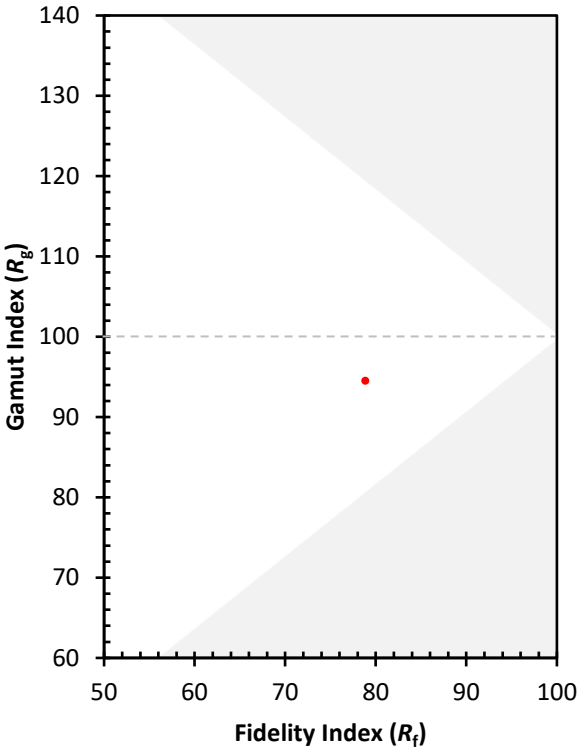


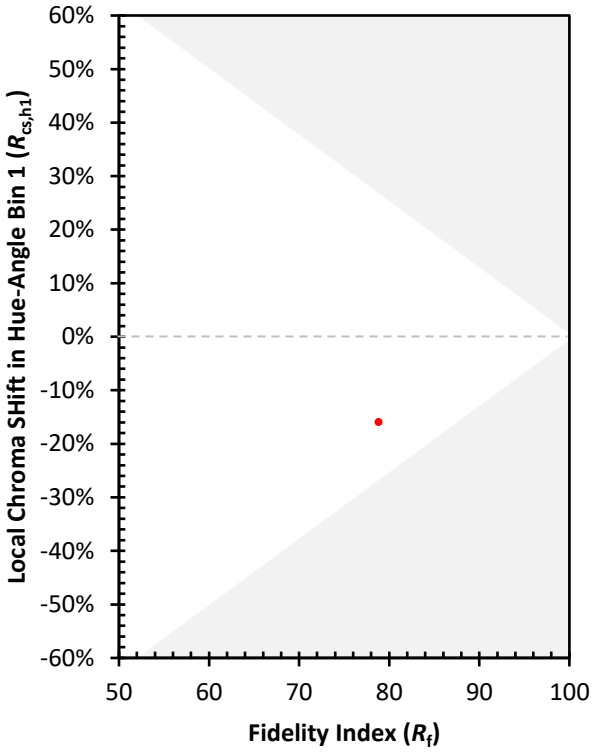


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TM-30-18

Measure Comparisons





(END OF REPORT)