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: P981468

Luminaire Tested: **FFX-CLB-20-727-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:	P981468
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T3-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2933.3 lumens
Efficiency:	N/A
Efficacy:	148.1 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

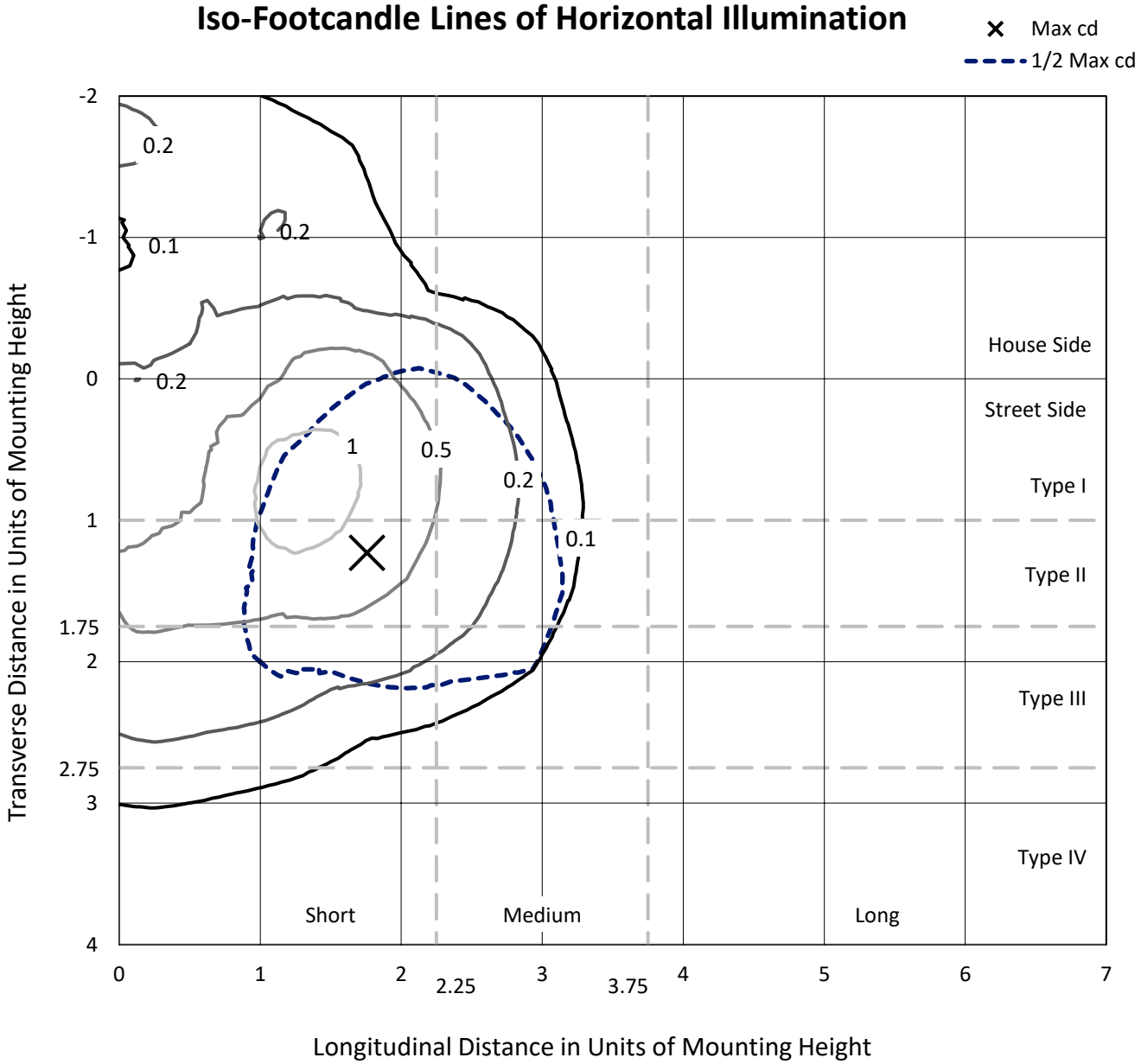


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Iso-Footcandle Lines of Horizontal Illumination



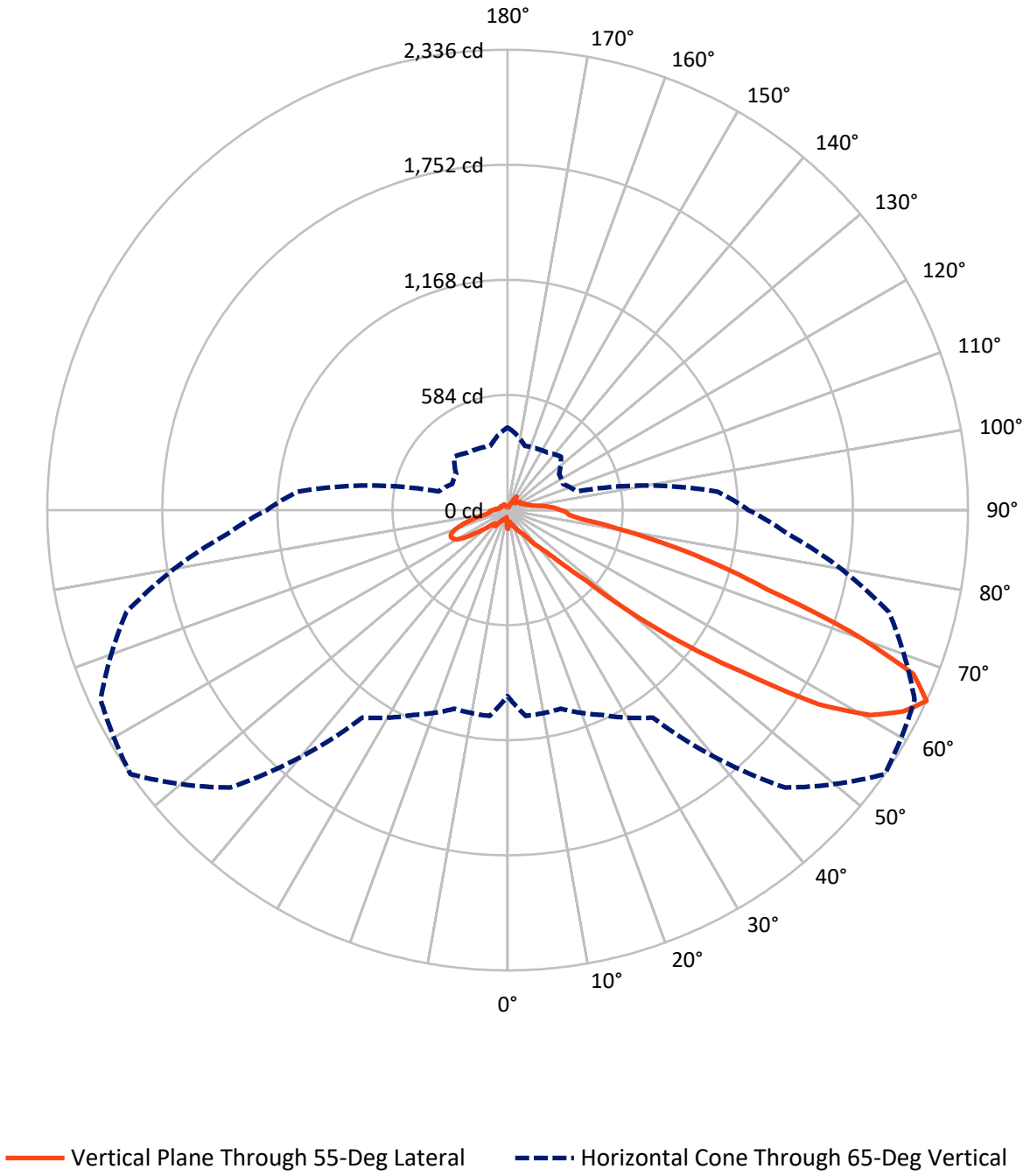
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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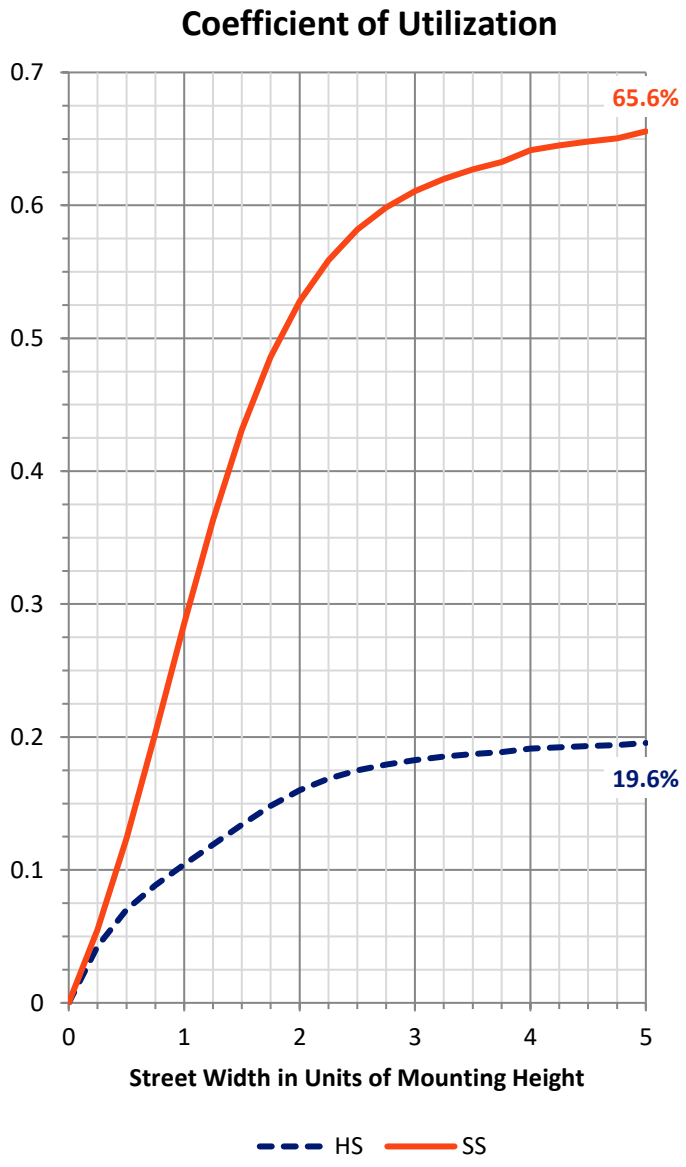
REPORT NUMBER: P981468
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.9	116.3	712.2
	% Fixture	20.3	4.0	24.3
Street Side	Lumens	1988.4	232.7	2221.1
	% Fixture	67.8	7.9	75.7
Total	Lumens	2584.3	349.0	2933.3
	% Fixture	88.1	11.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.2
10°-20°	17.9	0.6
20°-30°	36.7	1.3
30°-40°	79.5	2.7
40°-50°	193.0	6.6
50°-60°	602.5	20.5
60°-70°	957.3	32.6
70°-80°	510.2	17.4
80°-90°	181.8	6.2
90°-100°	110.6	3.8
100°-110°	65.5	2.2
110°-120°	51.1	1.7
120°-130°	42.6	1.5
130°-140°	31.2	1.1
140°-150°	28.7	1.0
150°-160°	12.9	0.4
160°-170°	4.9	0.2
170°-180°	1.5	0.0
0°-90°	2584.3	88.1
0°-180°	2933.3	100.0



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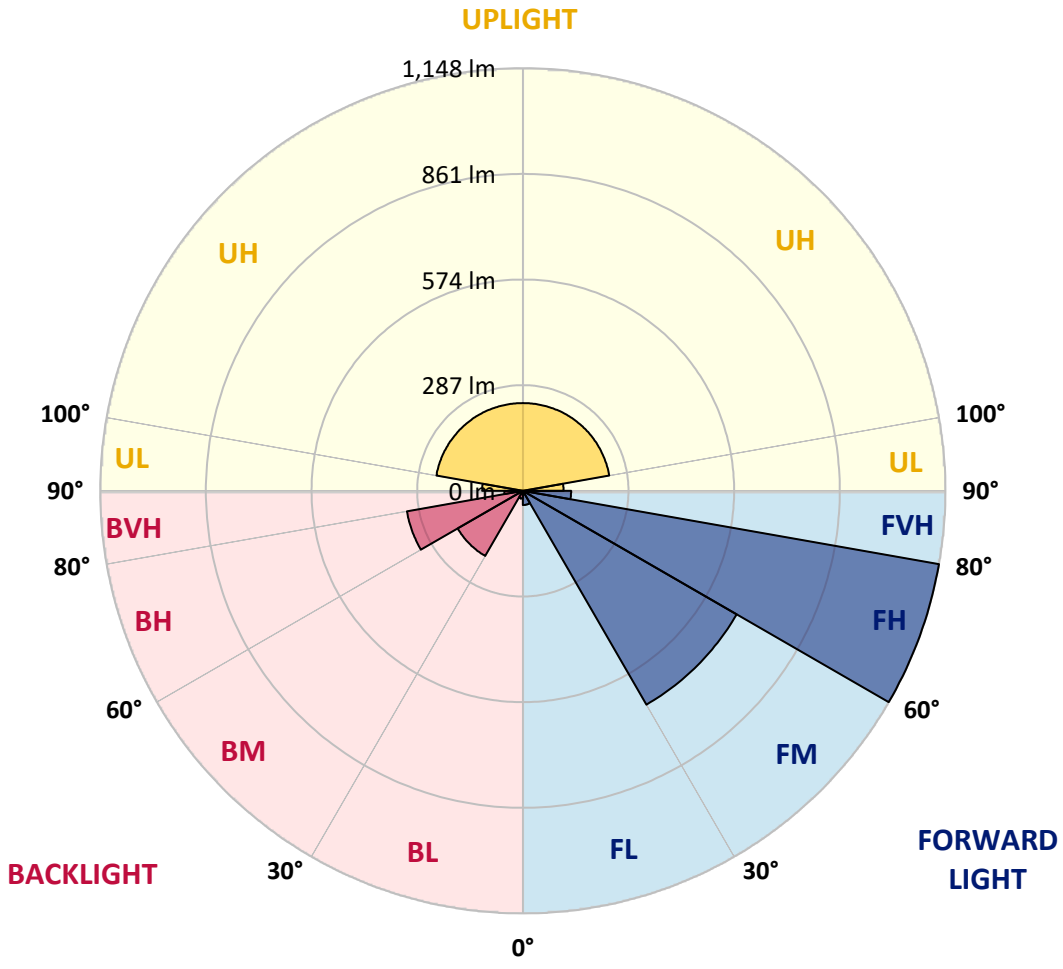
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	38.8	1.3			
FM	(30°-60°)	670.7	22.9			
FH	(60°-80°)	1147.8	39.1			G1/1800
FVH	(80°-90°)	131.2	4.5			G2/225
BL	(0°-30°)	21.3	0.7	B0/110		
BM	(30°-60°)	204.2	7.0	B0/220		
BH	(60°-80°)	319.7	10.9	B1/500		G1/500
BVH	(80°-90°)	50.6	1.7			G1/100
UL	(90°-100°)	110.6	3.8		U3/500	
UH	(100°-180°)	238.4	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°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2.5°	56.8	57.2	63.6	68.5	74.7	72.9	72.9	86.4	95.4	108.5	107.3
5°	60.8	58.2	59.4	63.8	72.1	76.1	71.7	56.8	47.1	51.1	55.8
7.5°	66.6	66.0	64.6	60.4	57.2	65.8	77.7	69.1	52.3	43.9	42.1
10°	68.1	68.3	68.0	68.3	69.9	66.2	59.4	54.0	52.5	51.7	51.1
12.5°	82.5	82.3	83.1	82.1	78.3	73.7	75.1	71.1	63.4	58.0	56.6
15°	96.2	95.8	95.6	91.8	85.6	78.3	74.7	76.5	71.5	65.4	62.6
17.5°	101.7	101.7	97.8	92.4	88.6	83.4	80.7	78.7	74.9	70.9	67.6
20°	99.5	99.3	95.4	93.2	93.6	91.2	88.8	85.8	82.1	75.7	71.5
22.5°	98.3	98.3	97.0	96.4	99.7	98.9	98.3	94.6	89.6	80.3	74.9
25°	106.1	105.5	103.7	103.7	106.9	109.5	110.5	107.5	99.3	85.2	80.3
27.5°	113.6	113.4	111.1	111.7	113.6	118.8	120.4	119.0	107.9	89.4	85.0
30°	122.8	121.4	119.4	123.0	122.6	129.7	131.9	133.5	119.4	98.0	92.8
32.5°	132.5	131.7	130.1	134.7	136.3	142.9	144.6	152.6	135.1	113.3	107.9
35°	149.0	148.4	152.6	161.5	161.3	173.7	168.9	180.8	164.3	140.9	135.5
37.5°	223.3	219.9	215.2	206.6	206.0	223.1	217.8	227.1	203.9	170.9	164.9
40°	232.5	231.9	229.7	219.9	214.4	243.6	247.2	274.8	236.4	198.7	187.2
42.5°	227.1	227.9	257.1	263.3	251.9	287.9	293.9	342.3	273.2	241.0	219.9
45°	273.8	275.0	284.5	288.9	288.1	378.5	393.2	452.6	337.6	300.4	261.5
47.5°	313.5	309.4	326.6	360.0	382.9	485.0	532.3	623.5	453.6	398.8	326.6
50°	430.8	429.8	471.5	508.0	530.7	697.8	843.4	943.6	664.8	578.2	455.8
52.5°	510.2	544.0	583.9	668.6	689.0	949.5	1146.6	1226.9	918.7	759.4	622.3
55°	590.9	639.6	684.3	816.0	884.0	1233.6	1458.0	1480.0	1206.6	923.3	785.2
57.5°	740.9	823.0	851.8	956.9	1056.2	1561.1	1858.5	1835.1	1503.5	1113.4	967.2
60°	876.6	975.4	967.0	1069.9	1197.7	1827.9	2112.8	2088.2	1775.1	1282.3	1107.1
62.5°	922.1	1021.6	1010.3	1122.4	1285.7	1971.0	2251.5	2209.4	1952.9	1390.6	1184.6
65°	943.4	1049.1	1043.5	1148.0	1285.7	1991.6	2336.0	2278.3	2002.6	1432.3	1221.9
67.5°	924.7	1026.6	1030.2	1123.0	1210.0	1842.4	2220.7	2142.4	1878.2	1332.2	1155.2
70°	808.3	879.6	870.6	954.7	963.2	1474.8	1843.0	1757.8	1525.9	1110.9	955.9
72.5°	667.8	685.1	677.7	730.8	740.7	1080.3	1377.5	1329.2	1139.5	826.5	730.4
75°	532.5	529.7	544.8	557.1	546.8	793.0	1090.8	1035.9	843.0	622.5	562.1
77.5°	368.4	347.1	386.8	390.6	374.3	527.3	804.7	783.8	604.2	458.8	414.3
80°	207.0	209.4	237.8	254.7	248.8	335.6	559.9	546.2	412.7	320.7	284.9
82.5°	159.7	166.9	180.2	192.9	184.6	256.7	378.7	379.7	301.8	234.3	214.0
85°	175.6	179.4	181.2	181.6	175.0	238.6	313.9	309.8	256.3	196.1	189.7
87.5°	171.3	175.2	175.8	176.0	170.3	227.3	297.2	290.7	244.4	188.4	178.6
90°	146.8	153.6	154.4	159.5	152.8	203.1	261.7	255.1	220.3	169.9	160.7
92.5°	126.2	129.7	133.5	139.7	132.5	176.8	234.3	226.1	197.3	153.6	141.1
95°	115.4	117.4	120.6	123.0	114.6	150.2	195.9	187.4	160.1	123.6	112.5
97.5°	92.8	94.6	96.0	98.9	93.2	119.0	152.0	144.0	125.6	98.3	90.0
100°	79.3	80.5	82.1	84.0	79.3	99.7	124.8	121.2	104.5	83.1	77.7
102.5°	72.5	73.5	76.3	76.3	73.3	91.2	111.5	108.7	94.0	75.3	71.7
105°	69.9	70.1	72.5	71.5	69.5	85.0	103.9	100.3	88.0	71.5	67.4
107.5°	66.6	66.8	69.7	68.1	66.6	78.9	94.2	92.6	81.5	66.8	63.2
110°	63.2	63.8	67.6	66.2	65.2	74.1	88.2	85.2	77.9	64.6	61.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	60.6	61.0	64.6	63.6	62.8	70.9	*81.9*	81.9	76.1	64.6	60.6
115°	58.4	59.2	62.2	60.2	58.8	66.8	*75.5*	75.9	71.1	61.6	57.6
117.5°	54.6	56.4	58.0	58.8	57.2	64.0	*71.7*	71.3	68.7	59.4	56.6
120°	62.2	60.8	62.0	63.4	60.8	66.2	*72.7*	72.7	70.1	58.4	56.0
122.5°	65.0	63.0	64.2	62.8	62.6	69.5	*77.7*	78.3	72.9	60.2	54.2
125°	57.6	56.8	55.4	55.0	56.6	63.2	*70.5*	73.1	67.4	57.6	50.7
127.5°	49.3	48.3	46.5	47.5	50.5	57.0	*60.8*	62.2	59.8	53.4	48.3
130°	45.5	45.3	46.7	48.5	50.9	56.4	*57.6*	59.6	59.6	52.1	49.1
132.5°	41.5	41.7	46.1	52.3	54.0	55.2	*52.7*	56.4	58.2	53.0	49.7
135°	40.9	41.1	43.5	48.5	48.7	49.5	*49.7*	54.4	55.6	50.7	46.9
137.5°	44.7	44.7	42.9	43.9	46.1	52.1	*54.0*	57.8	56.8	47.9	42.3
140°	49.3	48.3	42.7	42.9	46.7	54.0	*56.6*	59.0	57.8	46.9	40.3
142.5°	40.7	41.1	42.1	45.9	50.3	67.0	*64.8*	70.7	68.3	49.7	39.3
145°	63.6	63.8	62.6	64.2	67.0	89.0	*82.3*	91.8	94.6	65.0	46.7
147.5°	69.5	70.3	68.1	66.8	74.7	81.5	*73.9*	81.9	87.2	68.1	50.1
150°	54.2	54.0	52.7	54.6	60.0	59.6	*55.6*	58.4	60.6	52.1	42.9
152.5°	38.5	37.9	37.2	37.4	43.7	42.1	*40.9*	43.3	43.3	39.9	34.4
155°	32.0	32.0	31.6	32.6	36.2	33.4	*32.4*	32.0	31.6	30.6	28.4
157.5°	27.0	27.6	27.0	28.2	30.6	28.0	*27.4*	26.8	27.0	27.0	26.4
160°	22.5	22.5	22.1	24.0	24.8	22.8	*21.9*	21.5	21.5	22.7	22.7
162.5°	18.9	18.9	19.1	19.9	20.5	19.1	*18.5*	18.5	19.1	20.9	20.9
165°	16.3	16.3	16.5	17.1	17.5	16.7	*16.3*	16.5	18.1	19.7	19.7
167.5°	14.9	14.9	14.9	15.1	15.3	14.9	*14.9*	15.7	17.1	18.1	18.1
170°	14.1	14.1	13.9	14.1	14.1	14.1	*14.9*	15.7	16.3	16.3	16.3
172.5°	14.3	14.3	14.1	14.3	14.3	14.1	*15.1*	16.1	15.7	15.5	15.5
175°	14.7	14.7	14.7	14.9	14.9	14.5	*14.3*	14.7	15.1	15.1	14.9
177.5°	14.7	14.7	14.5	14.7	14.5	14.1	*13.9*	13.7	13.7	13.5	13.5
180°	13.7	13.7	13.7	13.7	13.7	13.7	*13.7*	13.7	13.7	13.7	13.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2.5°	97.2	83.8	73.9	81.7	98.7	107.3	98.7	75.1	52.9	46.3
5°	58.2	56.6	51.1	49.9	52.1	50.1	55.6	52.7	41.7	42.1
7.5°	43.5	52.7	50.9	36.4	34.0	31.8	33.6	38.3	39.5	37.0
10°	50.5	45.5	39.7	37.0	40.3	43.5	41.3	36.0	31.0	29.6
12.5°	55.6	55.2	55.8	50.1	41.1	37.9	36.8	39.5	48.1	50.1
15°	59.8	55.2	51.1	49.9	43.9	40.7	39.1	38.3	36.8	35.6
17.5°	64.0	56.4	51.9	47.3	44.3	41.3	37.9	36.2	36.0	36.2
20°	66.8	59.8	54.4	49.3	45.5	41.5	38.1	36.6	36.6	36.6
22.5°	70.1	63.4	57.6	51.1	46.7	42.3	39.5	37.9	37.8	37.8
25°	75.7	68.1	61.4	54.2	49.5	45.5	41.7	39.7	39.1	38.9
27.5°	82.1	73.7	65.6	58.2	53.2	48.9	43.9	40.9	40.1	39.9
30°	90.2	80.7	70.3	62.6	56.4	52.3	46.3	42.7	41.1	40.9
32.5°	103.5	91.0	77.5	68.9	61.6	56.0	49.5	45.1	42.5	41.9
35°	129.1	113.8	93.6	81.3	69.5	60.8	52.3	46.5	43.9	43.5
37.5°	157.8	134.5	114.8	100.5	86.2	71.5	56.6	48.7	45.5	44.9
40°	170.1	148.0	127.2	104.7	101.5	90.0	69.5	54.0	47.7	46.7
42.5°	197.1	165.7	137.5	92.6	99.9	99.3	85.8	66.2	53.6	51.3
45°	232.1	188.6	153.0	98.9	100.7	97.2	88.0	76.5	65.2	62.6
47.5°	289.1	210.8	158.0	111.3	113.3	104.7	92.2	80.7	72.5	71.5
50°	412.9	276.2	176.2	134.7	141.1	121.4	105.9	96.0	86.2	84.4
52.5°	561.3	327.2	195.1	168.1	190.9	162.7	139.3	121.0	120.4	118.0
55°	717.7	346.9	220.1	204.8	240.4	216.0	193.1	176.4	185.0	185.8
57.5°	893.3	368.0	256.3	252.9	300.4	261.5	242.2	246.8	307.4	331.0
60°	1010.3	385.3	287.5	292.7	355.3	317.3	302.8	312.9	415.9	459.0
62.5°	1062.4	376.5	302.8	311.7	378.9	351.3	348.9	354.3	441.5	481.8
65°	*1069.5*	*363.6*	*311.1*	*318.9*	*383.1*	*354.9*	*344.7*	*337.2*	*395.2*	*418.8*
67.5°	981.7	336.2	304.6	312.7	364.2	330.4	305.2	288.1	321.7	324.1
70°	798.9	300.2	282.3	285.3	311.1	276.6	252.7	238.0	245.8	242.6
72.5°	619.5	264.7	251.5	244.6	252.3	222.7	194.5	187.0	194.3	190.9
75°	470.7	236.4	221.9	198.5	211.2	171.5	140.1	133.3	136.5	131.9
77.5°	346.1	190.5	173.7	146.8	164.3	124.4	94.6	87.6	88.8	84.4
80°	252.5	140.9	127.0	105.3	118.4	88.4	68.3	67.2	67.0	64.2
82.5°	195.1	111.9	101.5	90.6	92.8	78.1	64.8	62.8	62.8	58.6
85°	181.0	108.3	97.8	90.0	90.6	75.7	61.6	60.4	61.0	56.6
87.5°	169.1	105.9	97.4	88.0	83.4	68.5	55.4	56.8	57.2	53.4
90°	145.0	94.2	86.4	77.5	72.1	58.2	49.7	52.3	52.7	49.3
92.5°	127.2	80.9	74.3	67.4	65.0	54.6	47.7	49.7	49.7	46.7
95°	101.3	66.2	63.2	59.8	59.2	51.1	44.5	45.5	45.1	42.5
97.5°	82.5	57.4	54.8	51.7	49.7	43.7	39.1	40.1	40.3	38.5
100°	72.5	53.0	49.5	45.9	43.9	39.3	35.8	37.6	38.7	37.2
102.5°	67.8	50.7	46.7	42.9	41.3	37.2	33.8	35.4	37.0	35.6
105°	64.4	48.9	44.7	41.3	39.3	35.2	31.8	32.2	34.2	33.4
107.5°	60.0	48.9	43.5	40.1	37.8	34.0	30.0	29.6	30.8	30.6
110°	58.4	48.9	42.7	39.3	36.8	33.4	29.8	28.2	28.8	28.8

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

Scaled Data Report

REPORT NUMBER: P981468
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	57.0	48.5	41.9	37.9	35.8	33.0	29.4	27.0	27.6	28.0
115°	53.8	44.7	39.5	35.4	33.2	30.2	27.8	26.0	26.2	26.6
117.5°	52.1	41.3	38.3	34.6	33.0	31.2	29.0	25.6	25.6	26.0
120°	52.1	40.7	39.3	37.9	37.2	34.2	30.6	25.6	25.0	25.0
122.5°	51.3	45.3	42.9	39.7	37.6	33.6	29.2	25.0	24.6	24.6
125°	47.1	43.3	39.5	35.8	33.2	30.0	27.4	25.2	24.4	24.4
127.5°	44.9	38.9	35.4	32.4	30.6	29.0	27.4	25.2	24.2	24.0
130°	45.5	39.3	34.8	32.4	31.0	29.4	27.6	24.8	23.2	23.0
132.5°	45.9	37.9	33.6	31.6	30.6	29.4	27.0	23.4	21.7	21.7
135°	41.5	34.2	32.2	30.8	30.2	29.2	25.6	22.3	20.9	20.7
137.5°	37.8	33.2	31.8	30.4	29.4	28.0	25.2	21.9	20.1	19.9
140°	36.2	32.4	30.4	27.8	26.6	23.8	21.9	19.9	19.3	19.1
142.5°	34.4	30.4	28.0	25.8	25.2	24.2	23.0	19.9	17.9	17.9
145°	41.1	36.6	33.8	31.6	28.8	26.8	23.0	19.1	16.5	16.1
147.5°	43.1	38.9	36.2	33.2	28.0	23.6	19.5	16.7	15.7	15.3
150°	37.8	34.2	31.2	28.0	23.4	20.5	17.7	15.9	15.5	15.5
152.5°	30.0	28.0	24.8	22.7	19.7	17.9	16.3	15.3	14.9	14.9
155°	24.8	23.2	21.5	19.7	18.1	16.9	15.9	15.1	14.7	14.7
157.5°	24.0	21.7	20.1	18.5	17.5	16.3	15.5	14.7	14.5	14.3
160°	21.9	19.1	17.7	16.7	16.5	16.1	15.5	14.9	14.7	14.5
162.5°	20.3	17.5	16.5	15.9	16.5	16.9	16.5	15.7	15.1	14.9
165°	19.1	16.5	15.7	15.7	16.9	17.5	16.5	15.7	15.7	15.5
167.5°	17.7	16.9	15.9	15.7	16.7	17.9	18.1	16.7	16.1	15.9
170°	16.5	16.7	16.7	16.1	16.3	17.3	17.7	17.3	16.5	16.3
172.5°	15.7	16.1	16.9	16.5	16.5	16.9	17.3	16.9	16.3	16.1
175°	14.9	15.1	14.7	14.9	15.5	16.1	15.9	15.7	15.5	15.5
177.5°	13.5	13.5	13.7	13.7	13.9	14.5	14.7	14.7	15.1	15.1
180°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

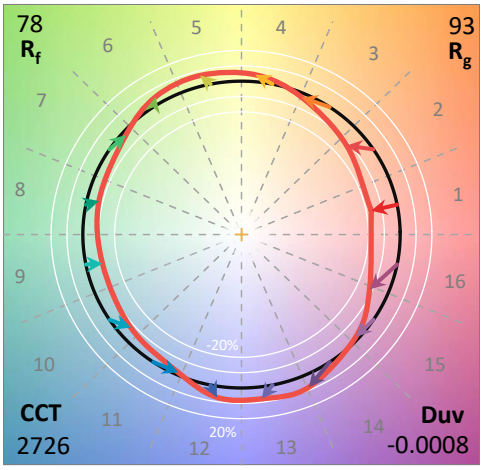
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

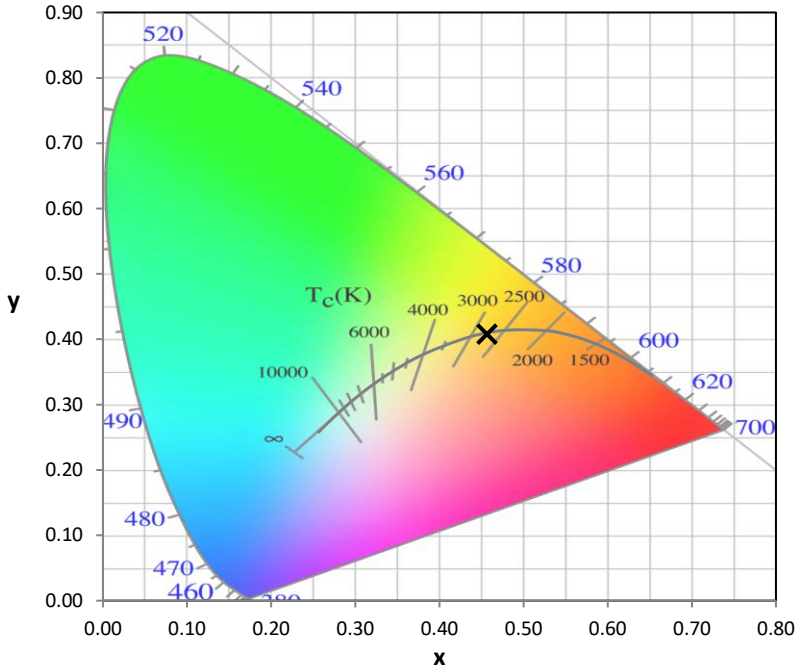
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

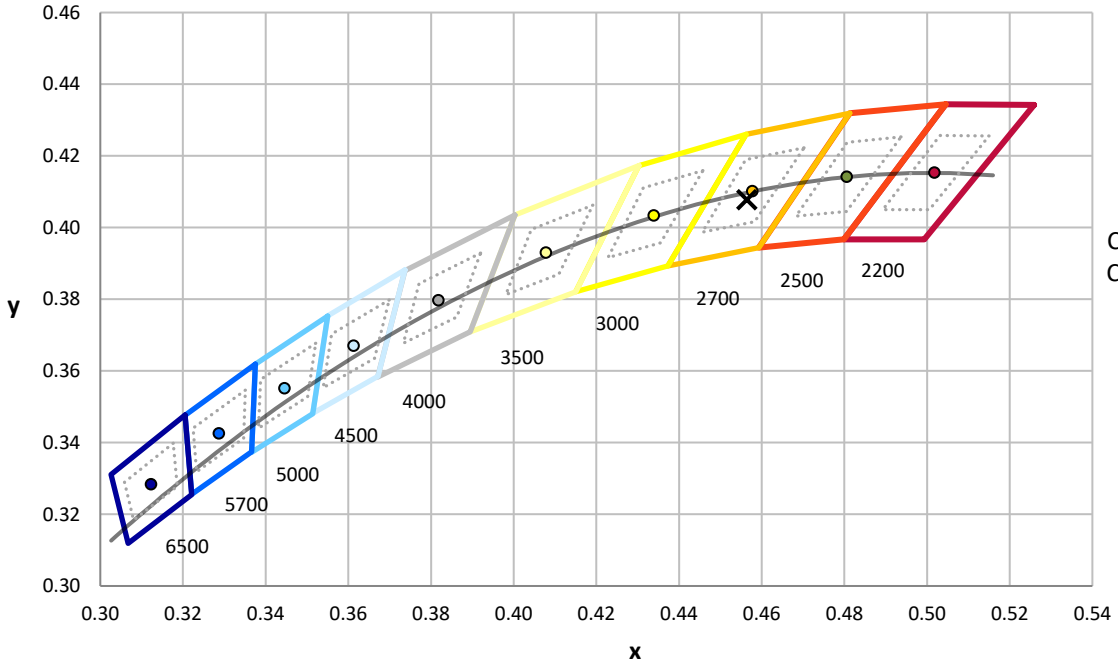
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

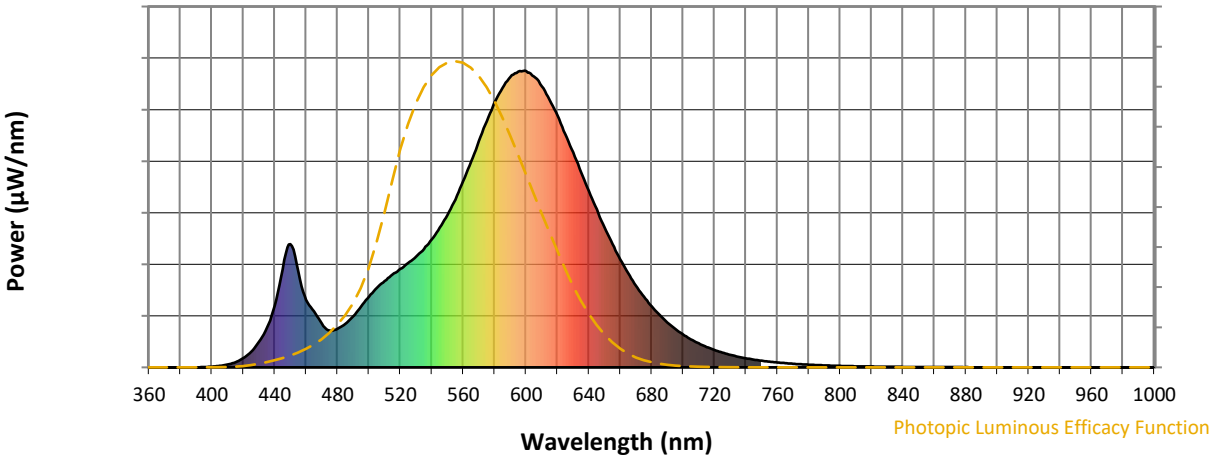


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

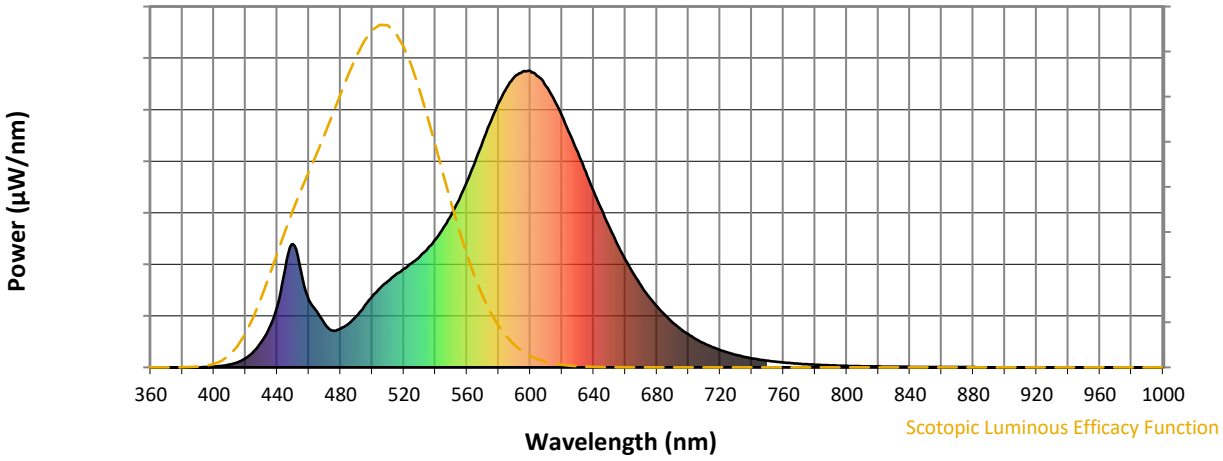


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

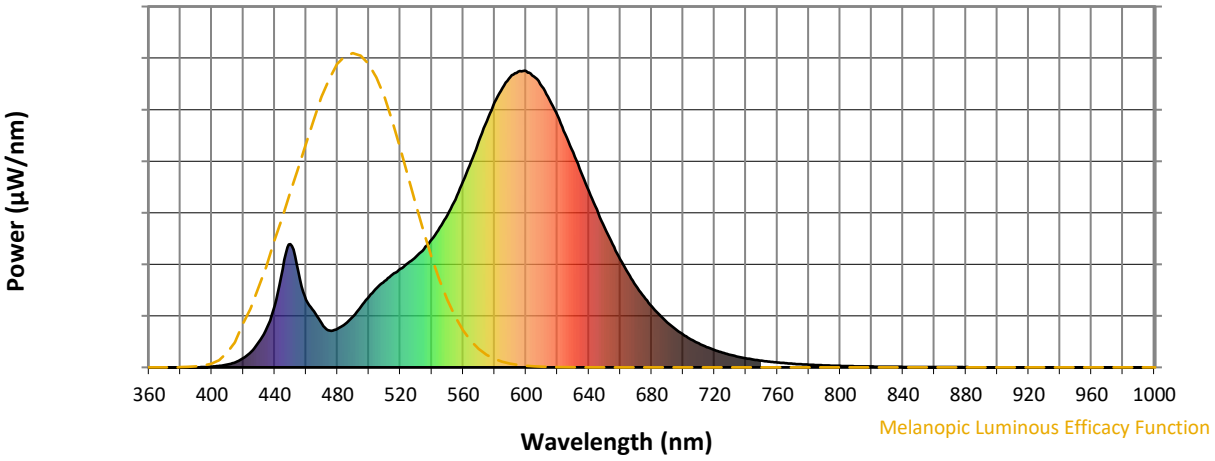


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

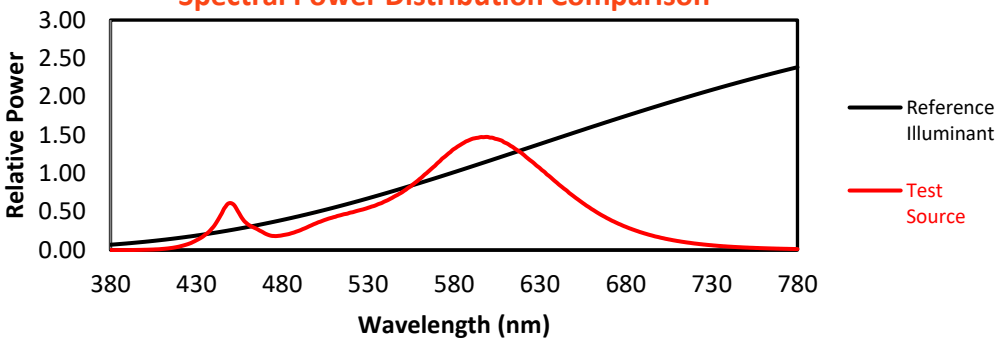
REPORT NUMBER: SP1-2501-332-3

TM-30-18

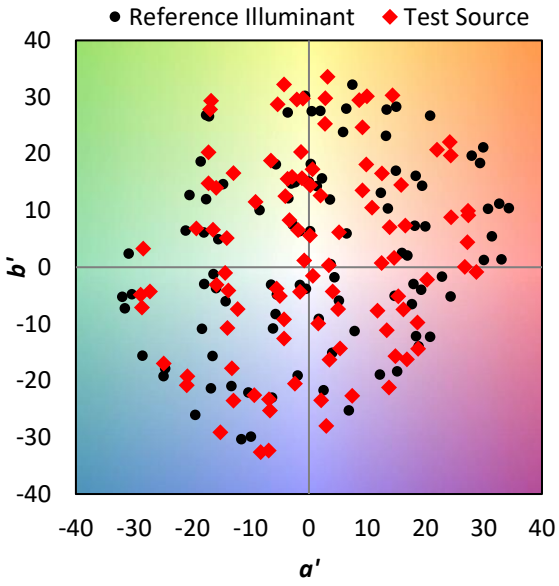
Summary

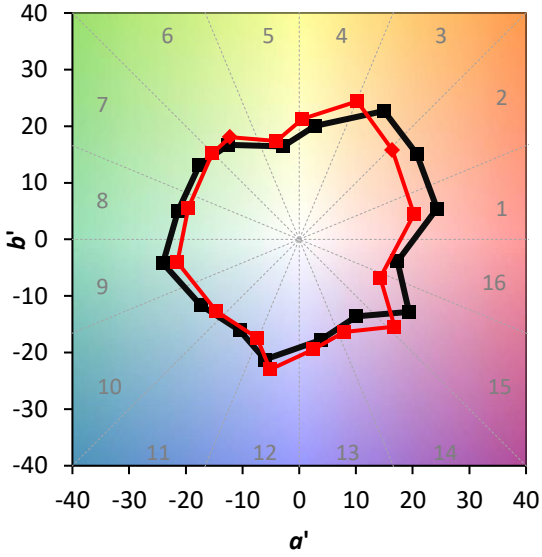
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

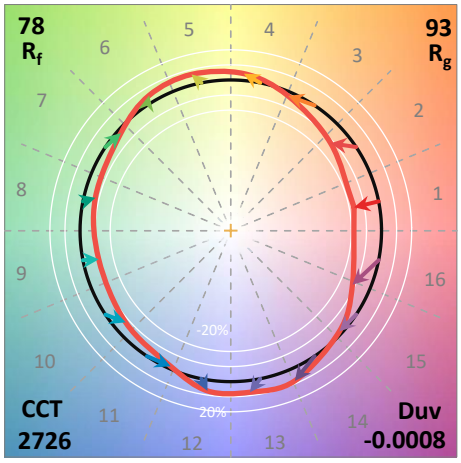
Spectral Power Distribution Comparison

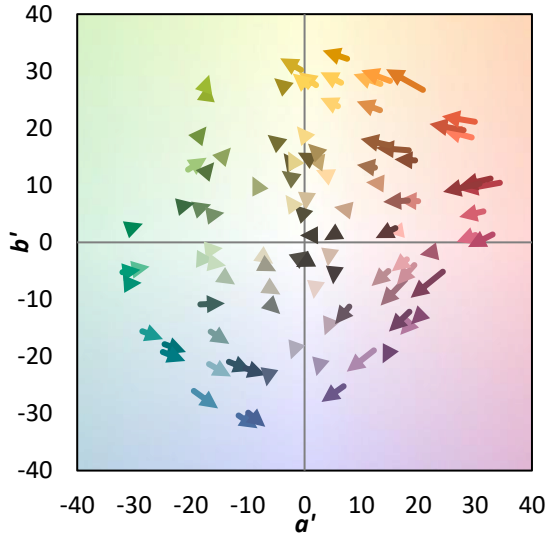


Color Vector Graphics







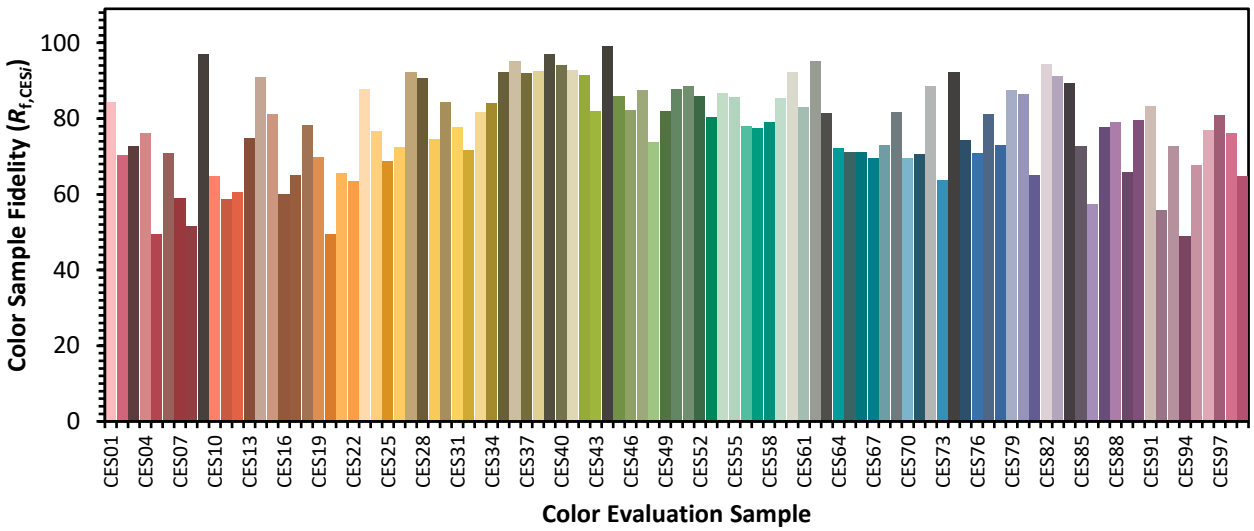


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

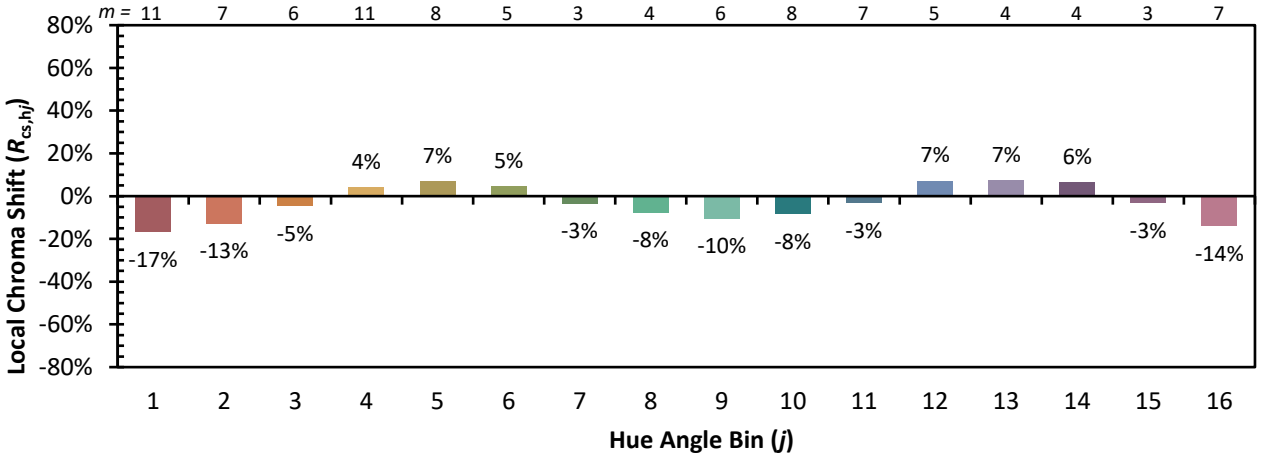
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

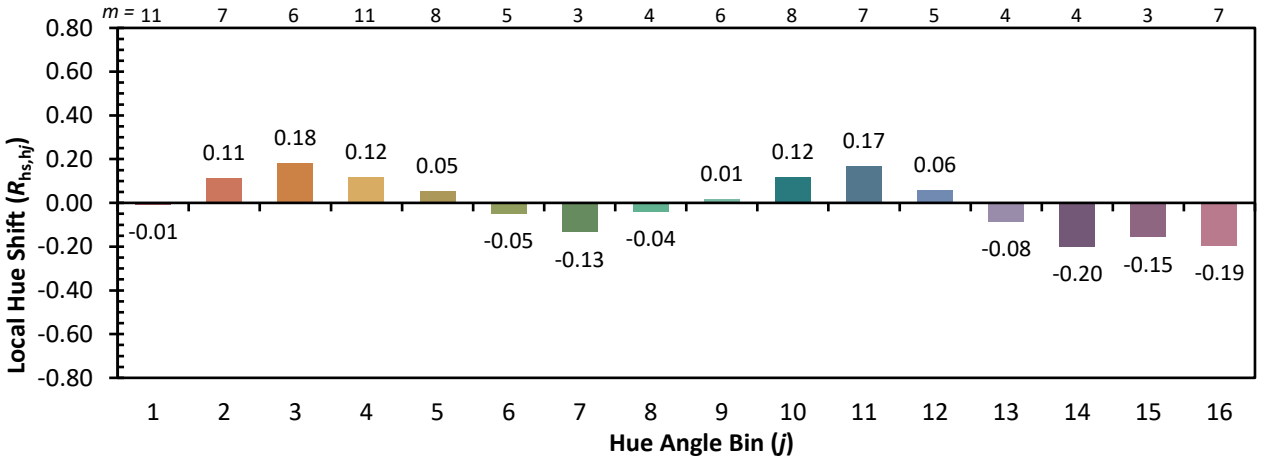


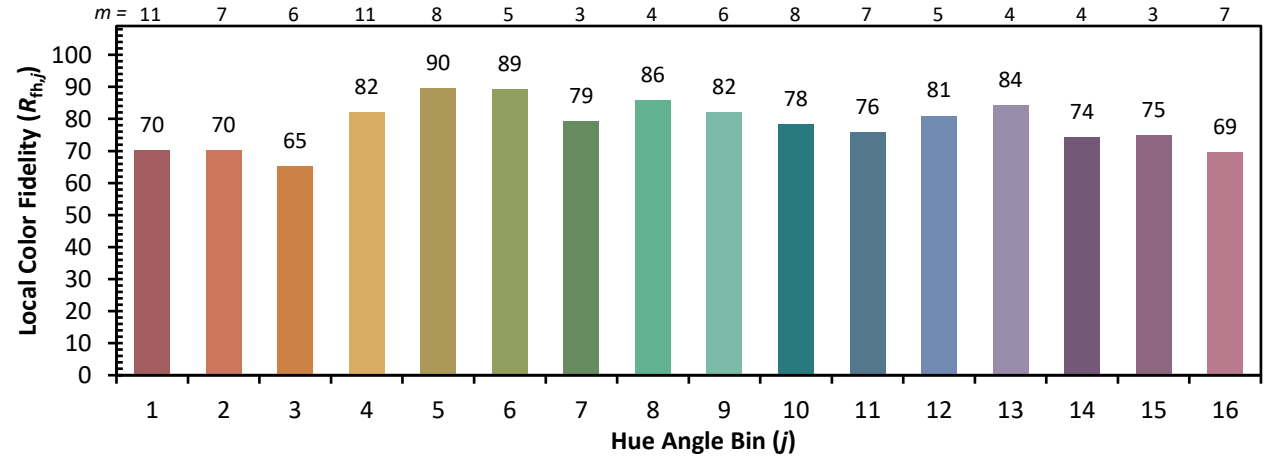
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



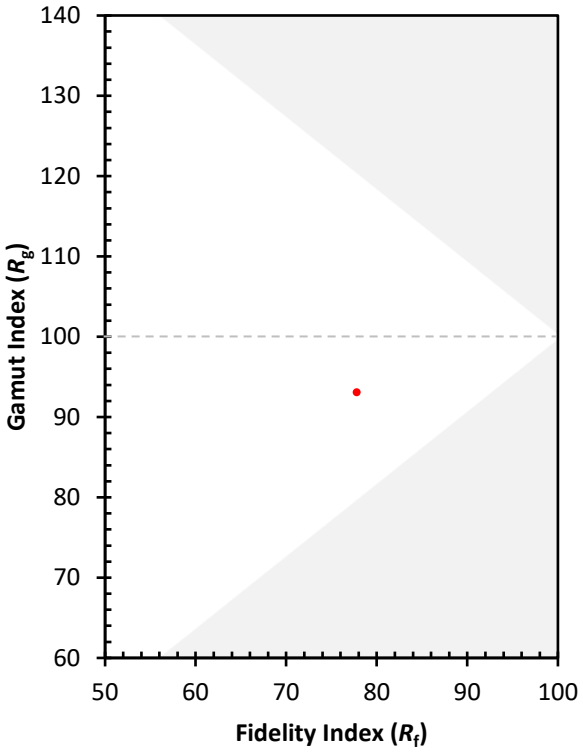


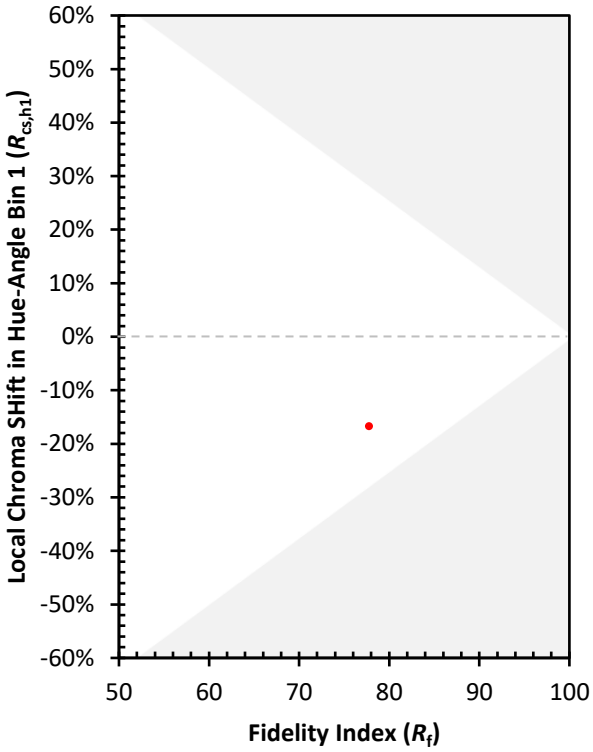


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Measure Comparisons





(END OF REPORT)