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: P981422

Luminaire Tested: **FFX-CLB-30-727-U-FR-T3**

Issue Date: 04/15/2025

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P981422
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	04/15/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-U-FR-T3
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4546.9 lumens
Efficiency:	N/A
Efficacy:	148.6 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

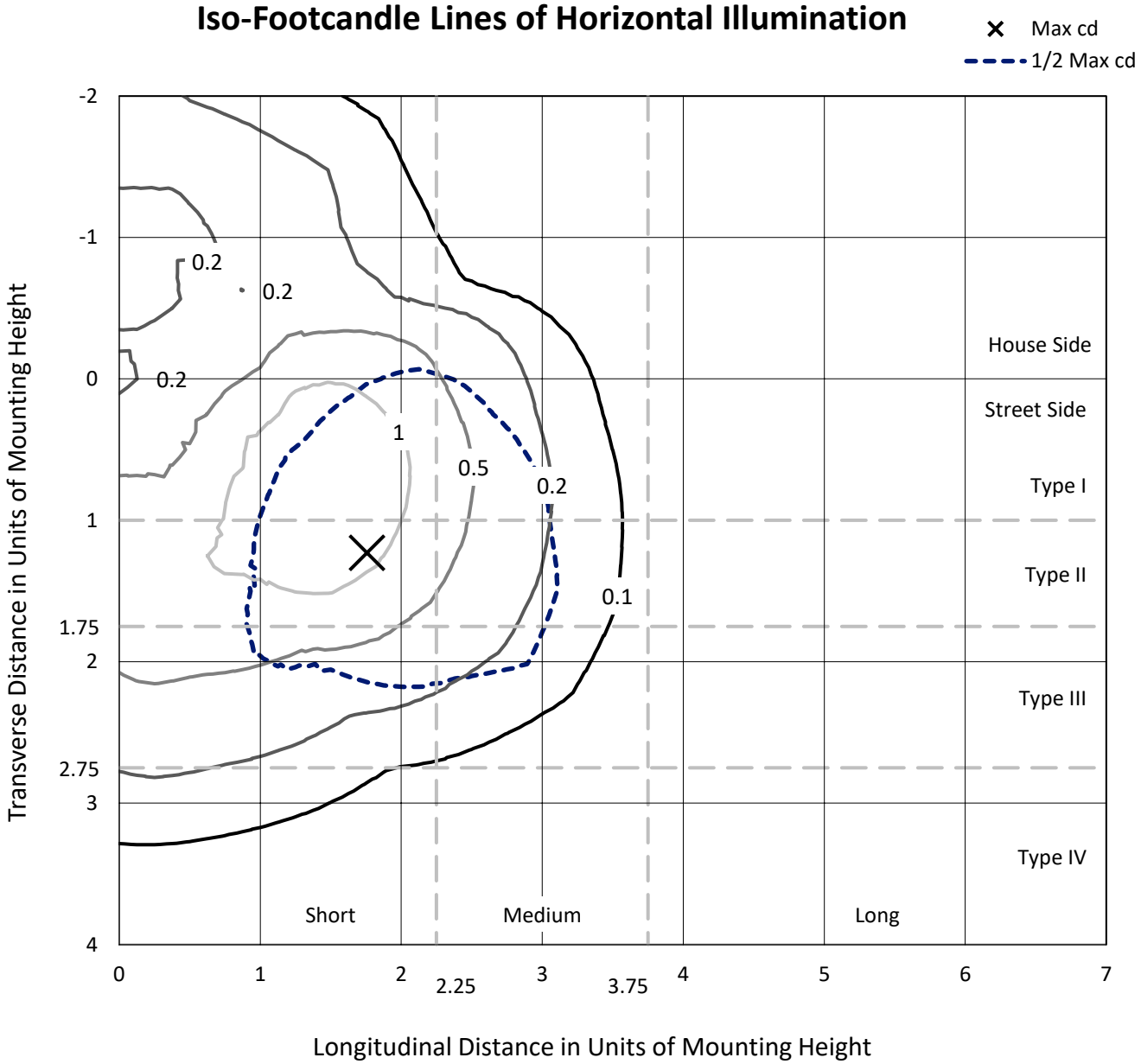


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Iso-Footcandle Lines of Horizontal Illumination



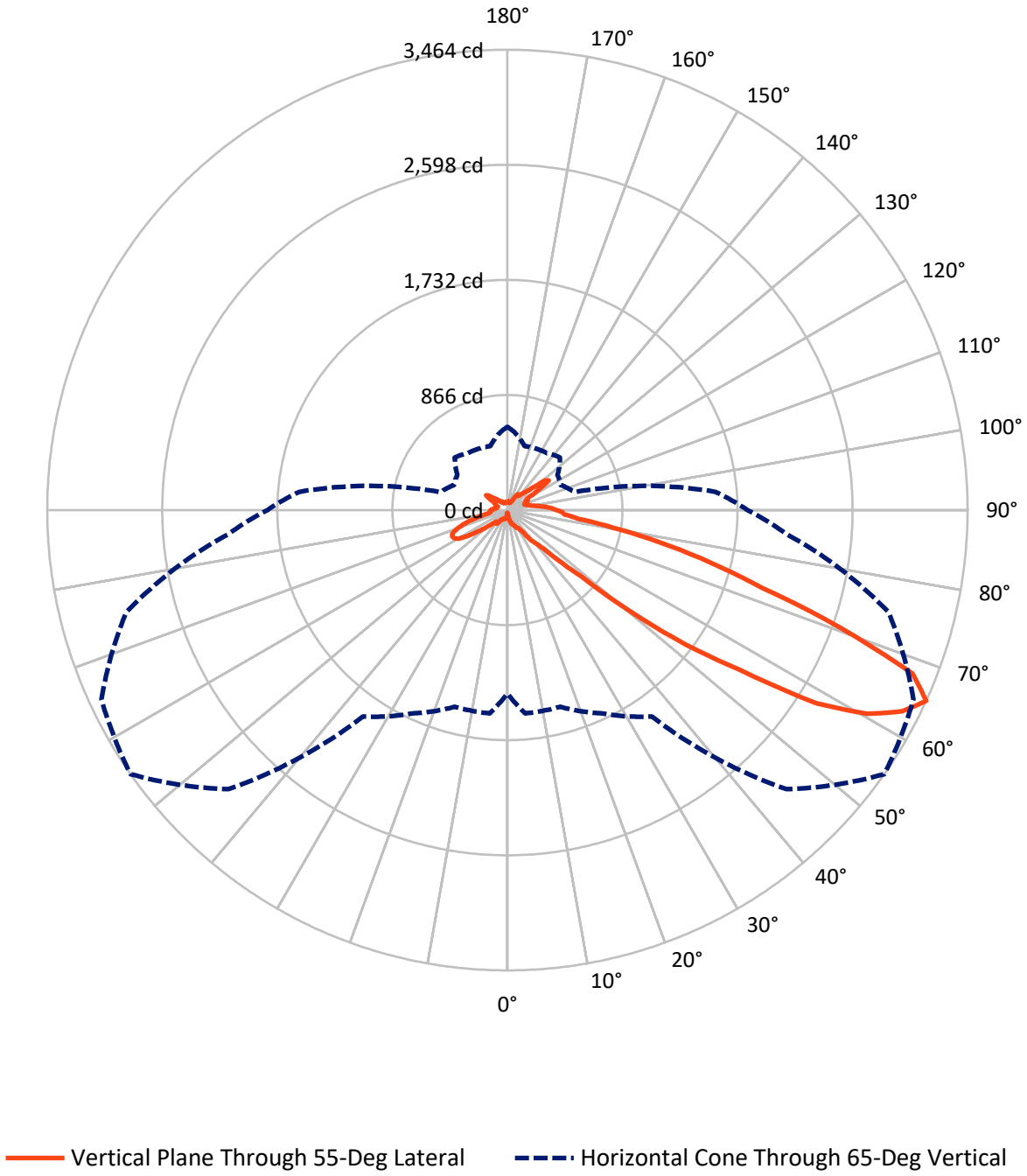
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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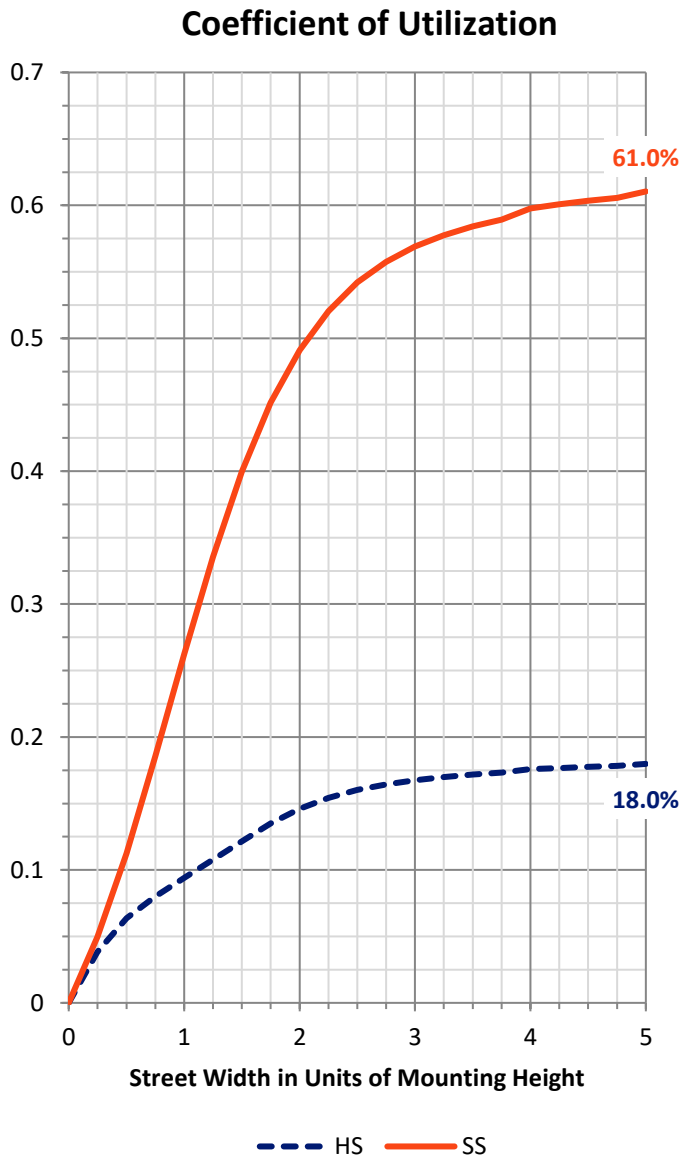
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.3	305.3	1157.6
	% Fixture	18.7	6.7	25.5
Street Side	Lumens	2865.4	523.8	3389.3
	% Fixture	63.0	11.5	74.5
Total	Lumens	3717.7	829.1	4546.9
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	23.1	0.5
20°-30°	47.5	1.0
30°-40°	99.4	2.2
40°-50°	262.5	5.8
50°-60°	873.5	19.2
60°-70°	1409.0	31.0
70°-80°	739.1	16.3
80°-90°	259.3	5.7
90°-100°	167.4	3.7
100°-110°	108.6	2.4
110°-120°	119.1	2.6
120°-130°	200.3	4.4
130°-140°	117.4	2.6
140°-150°	62.8	1.4
150°-160°	31.2	0.7
160°-170°	16.4	0.4
170°-180°	6.0	0.1
0°-90°	3717.7	81.8
0°-180°	4546.9	100.0



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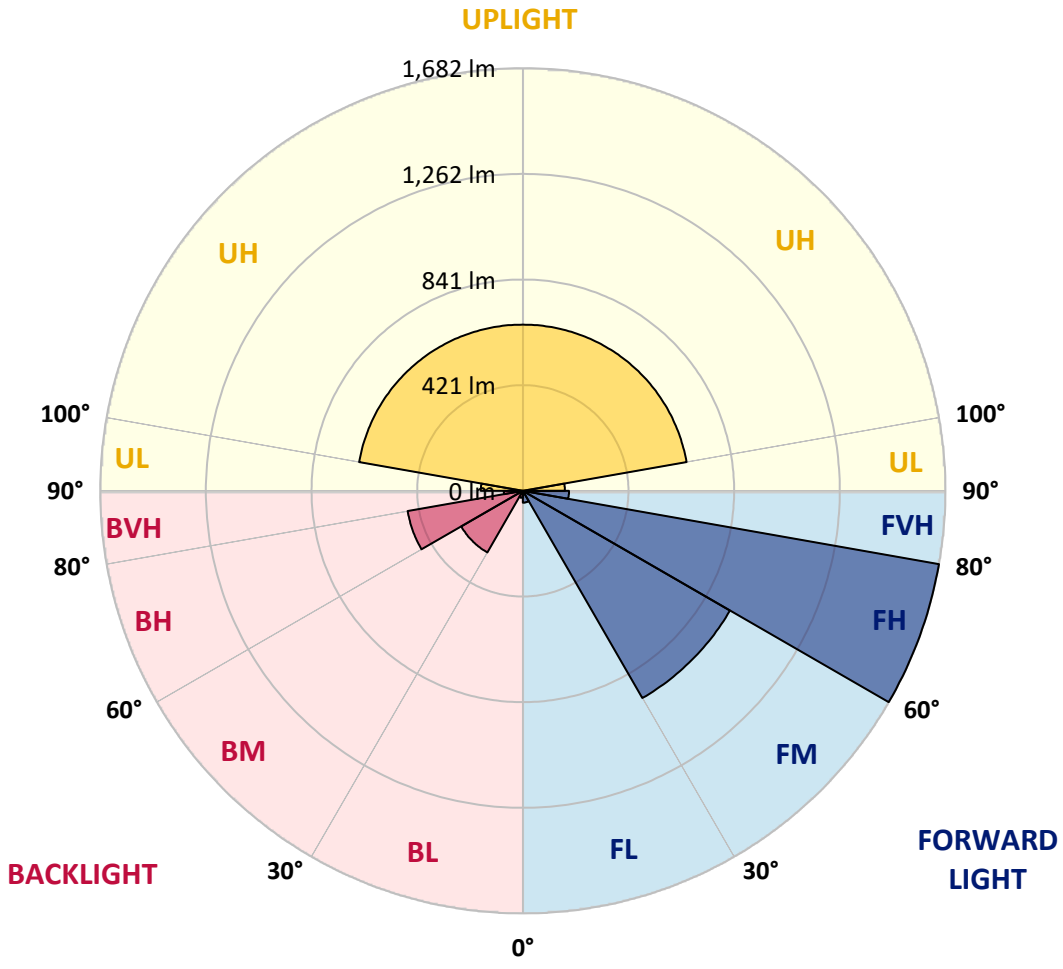
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	47.2	1.0			
FM	(30°-60°)	952.2	20.9			
FH	(60°-80°)	1682.4	37.0			G1/1800
FVH	(80°-90°)	183.6	4.0			G2/225
BL	(0°-30°)	27.6	0.6	B0/110		
BM	(30°-60°)	283.2	6.2	B1/1000		
BH	(60°-80°)	465.7	10.2	B1/500		G1/500
BVH	(80°-90°)	75.7	1.7			G1/100
UL	(90°-100°)	167.4	3.7		U3/500	
UH	(100°-180°)	661.7	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°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	25.7	26.3	27.8	28.4	28.7	28.1	26.9	28.1	28.1	28.1	27.8
5°	37.4	37.4	37.4	38.3	38.6	39.2	38.6	37.1	35.9	34.7	34.4
7.5°	52.4	53.0	53.3	53.3	53.3	54.5	55.7	53.0	50.6	48.2	47.6
10°	75.2	73.7	72.2	72.8	71.6	69.2	70.4	68.3	62.9	61.1	61.1
12.5°	96.1	95.8	96.4	93.1	91.3	86.2	86.8	85.6	81.7	75.5	73.4
15°	107.8	108.7	108.4	109.6	106.9	99.7	97.9	98.5	94.9	88.9	85.9
17.5°	113.8	113.8	114.1	115.6	115.6	108.7	105.7	104.2	101.2	96.1	92.2
20°	116.8	116.8	116.5	118.6	122.8	118.9	114.7	112.3	109.6	101.5	95.5
22.5°	125.2	124.6	123.7	124.3	130.5	129.3	126.1	122.5	118.6	106.3	98.8
25°	133.8	134.1	131.4	132.3	138.6	140.4	137.7	134.1	129.6	111.1	103.6
27.5°	143.7	143.4	139.8	141.0	144.3	150.9	147.6	145.8	138.3	115.0	107.8
30°	152.7	151.2	147.6	150.6	150.6	161.1	158.1	159.0	149.7	122.2	114.4
32.5°	159.3	159.0	156.9	160.8	158.7	172.2	171.3	178.7	165.0	136.2	129.0
35°	174.3	174.6	183.2	190.7	187.1	206.9	211.1	220.7	203.9	171.3	163.5
37.5°	282.0	278.4	266.5	252.7	254.5	291.3	286.2	291.3	265.6	218.6	206.3
40°	297.0	297.9	284.1	273.7	272.2	319.2	327.0	368.3	314.4	262.0	237.7
42.5°	289.2	292.2	329.9	343.4	331.4	391.3	393.7	473.4	366.8	323.1	291.0
45°	366.8	367.4	375.2	383.8	385.3	534.4	542.8	630.9	466.5	406.9	352.7
47.5°	417.4	422.2	432.9	492.2	523.7	683.2	739.2	879.1	621.3	554.8	447.9
50°	590.1	603.3	656.6	707.5	756.6	1013.2	1201.5	1368.3	933.3	813.2	650.9
52.5°	719.2	766.5	826.1	948.8	1000.6	1384.8	1680.6	1783.9	1307.2	1102.1	886.8
55°	831.2	918.0	982.4	1183.3	1281.8	1805.4	2121.0	2136.0	1754.2	1345.2	1137.1
57.5°	1061.7	1188.3	1230.3	1402.1	1539.3	2306.3	2744.7	2671.0	2210.5	1622.2	1404.2
60°	1278.8	1424.6	1409.0	1567.4	1748.8	2737.2	3113.8	3076.4	2638.1	1884.5	1637.8
62.5°	1349.4	1497.3	1484.2	1650.6	1894.6	2938.1	3335.4	3273.4	2890.5	2048.5	1755.1
65°	1380.3	1536.3	1532.7	1688.4	1896.4	2970.1	3464.4	3372.2	2969.8	2114.7	1806.6
67.5°	1353.9	1502.4	1500.9	1644.3	1758.1	2737.8	3289.9	3154.0	2774.3	1959.0	1695.5
70°	1168.3	1271.6	1265.3	1353.3	1412.9	2176.1	2669.8	2567.1	2239.0	1609.9	1404.5
72.5°	952.7	983.3	996.4	1046.7	1062.6	1592.5	2002.1	1920.4	1669.5	1205.7	1065.0
75°	760.8	762.3	776.1	793.7	788.3	1171.6	1577.0	1526.4	1231.2	899.4	807.8
77.5°	503.6	499.7	560.2	567.4	532.9	746.4	1177.6	1141.9	881.2	655.4	590.7
80°	288.9	290.1	331.4	357.5	343.7	474.3	806.9	799.1	605.1	458.7	405.7
82.5°	215.6	225.8	247.9	261.7	256.3	356.6	536.8	551.5	429.9	329.9	301.5
85°	240.1	245.8	248.2	249.1	242.5	333.5	433.5	432.6	361.4	277.0	267.4
87.5°	233.8	238.6	240.7	241.9	235.3	318.9	409.6	403.6	346.7	266.2	252.1
90°	196.7	207.8	207.5	218.0	210.5	280.2	359.3	355.4	314.7	245.2	228.7
92.5°	165.0	171.3	175.5	189.8	183.2	246.7	323.1	314.1	281.7	223.1	205.4
95°	154.2	159.9	163.2	171.3	163.2	213.2	272.2	264.1	233.8	185.9	168.9
97.5°	129.9	131.7	134.7	140.1	134.7	172.8	220.4	212.6	187.7	151.8	139.8
100°	110.2	112.0	115.9	119.8	117.1	147.9	184.4	180.2	161.4	132.0	124.0
102.5°	104.2	105.4	110.5	112.9	109.6	135.9	162.9	162.9	146.1	121.9	115.3
105°	99.4	100.9	104.8	105.7	103.3	125.2	150.3	148.8	135.6	114.1	107.8
107.5°	94.6	96.4	99.7	98.2	97.0	115.3	135.0	137.4	126.1	108.4	104.2
110°	99.7	100.3	103.0	100.6	102.7	114.7	135.6	136.2	132.9	118.3	113.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	135.6	132.3	138.0	129.0	135.9	144.3	*157.5*	162.3	158.4	141.6	137.7
115°	148.5	150.9	156.9	147.9	152.4	162.6	*168.9*	169.8	165.3	154.5	153.0
117.5°	115.9	127.8	121.6	126.9	128.7	142.8	*157.2*	161.4	157.2	142.2	151.5
120°	148.2	157.8	136.2	129.6	138.6	163.2	*176.4*	179.9	168.6	168.9	174.6
122.5°	245.8	251.2	264.7	271.6	261.1	276.1	*280.5*	283.8	266.5	246.1	235.9
125°	373.1	369.2	367.4	365.6	362.9	378.8	*381.7*	373.4	356.0	327.6	311.7
127.5°	337.4	340.7	345.8	345.2	342.8	355.1	*362.6*	357.5	352.7	325.5	316.2
130°	242.8	244.3	253.3	269.5	267.7	277.6	*278.4*	283.5	291.6	279.6	270.1
132.5°	201.2	202.7	216.2	223.4	224.0	224.3	*220.1*	231.7	240.1	228.1	220.1
135°	175.5	175.5	178.4	175.8	176.7	184.4	*188.0*	198.5	200.6	194.9	186.8
137.5°	155.1	155.7	149.4	144.3	145.2	159.3	*167.4*	175.5	171.3	159.6	153.9
140°	135.0	131.7	123.1	121.6	128.1	141.6	*146.4*	152.1	153.3	138.3	130.8
142.5°	99.4	98.2	102.1	110.2	113.8	136.2	*132.6*	143.4	144.0	118.9	106.6
145°	111.1	110.8	110.5	112.0	120.4	153.0	*144.3*	158.1	164.7	126.3	103.3
147.5°	125.5	125.2	122.5	119.2	131.7	139.8	*132.0*	144.0	151.2	125.5	100.0
150°	97.0	97.6	96.1	95.2	109.0	107.5	*105.7*	109.0	112.0	103.9	91.0
152.5°	75.5	74.3	73.4	73.7	85.0	83.2	*83.2*	85.6	85.9	82.9	76.3
155°	68.0	67.7	67.1	68.3	75.2	73.4	*71.9*	71.3	69.8	68.9	68.0
157.5°	63.8	63.2	63.2	65.0	69.8	66.8	*66.2*	65.6	64.7	64.7	65.0
160°	59.6	59.3	59.3	62.0	63.5	60.8	*60.2*	59.9	59.6	60.2	60.8
162.5°	57.2	57.2	57.2	59.0	59.0	57.2	*56.6*	56.3	56.6	58.7	59.0
165°	56.3	56.0	56.3	57.2	56.9	55.7	*55.4*	55.4	56.3	58.1	58.4
167.5°	57.8	57.8	57.8	58.1	57.8	56.6	*56.3*	56.3	57.2	58.7	58.7
170°	60.2	59.9	59.9	59.9	59.6	58.4	*57.8*	58.1	58.4	59.3	59.3
172.5°	62.3	62.3	62.0	61.7	61.1	60.5	*59.9*	59.9	59.9	60.2	60.2
175°	64.7	64.7	64.7	64.4	64.4	63.5	*63.2*	62.9	62.6	62.3	62.0
177.5°	67.4	67.1	67.1	67.1	67.1	66.2	*65.6*	65.3	64.7	64.4	64.4
180°	66.2	66.2	66.2	66.2	66.2	66.2	*66.2*	66.2	66.2	66.2	66.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
2.5°	27.8	26.9	25.4	22.8	21.9	21.0	20.1	18.3	17.4	16.8
5°	34.1	32.9	32.6	31.1	29.0	27.2	26.9	26.3	26.0	25.2
7.5°	48.8	49.4	50.9	48.2	42.2	38.9	39.8	43.1	41.9	41.6
10°	61.4	65.3	68.3	61.4	50.6	43.7	44.0	50.6	51.2	52.4
12.5°	71.9	75.2	74.6	65.9	55.7	49.1	47.0	50.6	53.9	54.2
15°	83.2	77.5	75.5	68.3	61.1	56.0	55.1	56.0	56.0	55.4
17.5°	88.0	78.1	72.2	66.2	61.1	57.5	56.3	54.8	52.7	52.7
20°	89.2	80.5	73.7	67.4	62.3	58.4	55.1	53.3	52.7	52.7
22.5°	92.8	85.0	77.8	70.4	65.0	59.9	56.0	54.2	54.2	54.5
25°	97.9	90.7	81.7	74.0	68.3	62.9	57.8	55.1	54.8	55.1
27.5°	104.2	96.7	86.8	78.4	71.9	65.9	59.6	56.3	55.1	55.1
30°	111.4	102.7	91.6	82.3	75.2	69.8	62.0	57.5	56.0	55.4
32.5°	124.3	114.4	97.6	87.4	79.3	73.4	65.6	59.9	56.9	56.3
35°	156.0	140.7	118.9	100.3	88.0	77.5	68.3	61.4	57.5	56.9
37.5°	190.4	167.4	146.7	126.1	108.1	91.0	73.4	63.8	59.0	58.1
40°	212.0	181.7	163.5	132.6	130.2	116.2	90.1	70.4	62.0	60.8
42.5°	256.3	211.1	182.0	117.1	127.2	130.2	113.8	88.3	70.1	68.0
45°	308.7	248.2	204.2	125.2	131.1	127.5	116.5	102.4	87.4	83.2
47.5°	400.0	283.2	212.0	145.2	150.0	140.1	123.7	109.0	97.9	96.4
50°	577.3	386.2	238.6	178.4	192.8	165.3	144.0	132.6	117.7	115.9
52.5°	805.4	465.0	268.0	230.8	263.5	229.3	194.9	171.9	168.6	169.8
55°	1052.7	489.2	306.6	285.3	342.5	310.5	271.0	248.8	270.7	277.6
57.5°	1297.9	525.8	362.6	356.0	428.8	379.9	348.8	358.4	449.4	471.3
60°	1491.0	556.9	409.9	424.0	514.1	461.1	447.9	462.0	618.3	676.4
62.5°	1566.8	542.8	434.4	452.7	554.2	518.0	513.5	527.0	658.7	715.9
65°	*1572.5*	*521.3*	*444.0*	*460.5*	*560.5*	*521.9*	*509.6*	*498.2*	*589.8*	*626.1*
67.5°	1455.1	478.2	432.3	449.4	532.6	481.4	456.0	430.2	477.3	497.3
70°	1173.1	424.0	395.8	405.7	447.9	400.6	365.9	348.2	365.0	363.5
72.5°	888.6	373.4	355.7	345.8	365.9	327.6	289.2	272.2	287.1	283.2
75°	678.8	333.2	316.8	283.8	303.3	251.5	209.3	197.6	204.8	202.1
77.5°	489.8	267.1	245.2	209.0	234.1	182.9	140.4	132.0	133.8	128.1
80°	352.7	199.1	177.8	152.1	172.2	130.8	104.2	102.4	103.3	97.3
82.5°	277.0	159.6	145.5	131.7	138.0	118.3	100.3	98.5	99.4	92.8
85°	258.1	156.3	141.6	132.6	134.7	116.5	97.3	96.7	98.2	91.0
87.5°	243.4	154.8	143.1	130.2	125.2	106.9	90.1	92.8	97.0	89.5
90°	214.7	144.3	134.1	122.5	117.1	100.3	90.1	94.0	93.7	88.3
92.5°	189.2	128.7	120.7	114.1	112.9	102.1	94.3	97.9	99.1	93.7
95°	155.1	108.7	104.8	102.7	104.5	94.0	87.4	89.2	88.0	85.0
97.5°	132.0	99.1	96.4	93.4	91.6	84.1	78.4	80.8	82.0	79.3
100°	119.5	94.3	92.2	88.9	88.6	83.5	80.5	85.3	88.9	87.4
102.5°	111.7	89.5	86.8	83.8	82.9	78.7	76.3	79.3	82.6	79.6
105°	106.0	85.0	80.8	78.1	76.6	73.7	70.7	71.9	75.5	74.0
107.5°	100.6	84.7	78.1	76.0	76.0	72.2	68.0	68.3	70.1	69.8
110°	109.0	94.0	82.0	79.0	78.1	76.9	74.0	71.0	68.6	68.6

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

Scaled Data Report

REPORT NUMBER: P981422
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	130.5	115.3	103.0	93.4	89.5	85.0	78.7	74.3	71.0	70.1
115°	140.1	123.7	112.0	101.5	92.5	83.8	78.4	75.2	73.4	75.2
117.5°	132.0	109.3	107.8	97.0	88.6	81.7	80.2	74.9	77.8	77.8
120°	148.5	126.9	123.7	108.1	96.4	87.7	86.8	85.9	82.6	81.1
122.5°	217.1	188.9	175.5	152.4	132.3	114.4	104.2	90.1	80.2	78.1
125°	294.9	257.8	225.5	194.9	164.7	132.6	105.7	84.7	74.6	73.1
127.5°	295.8	258.1	222.5	185.3	152.4	118.9	94.9	80.2	73.1	72.8
130°	260.2	227.3	188.0	151.2	124.6	102.4	85.0	73.1	68.0	66.5
132.5°	207.2	177.8	152.7	129.9	109.6	90.7	75.2	66.8	63.8	63.5
135°	174.3	148.8	131.1	114.4	98.5	81.7	67.4	63.2	61.7	61.1
137.5°	142.2	126.9	116.2	102.7	87.4	73.7	64.1	62.3	61.7	60.5
140°	123.4	113.2	101.5	86.5	74.9	63.5	58.4	59.9	61.4	61.1
142.5°	100.6	93.1	84.4	74.6	66.5	61.4	59.3	60.2	60.2	60.5
145°	95.5	85.6	80.8	74.9	69.5	65.6	60.5	58.7	58.4	58.4
147.5°	88.6	84.7	81.7	77.5	69.5	62.3	56.6	55.7	56.9	56.6
150°	82.9	80.2	76.6	70.1	62.0	57.2	54.2	54.5	56.6	56.9
152.5°	70.4	68.9	66.5	62.3	56.6	54.2	52.7	53.9	55.4	55.7
155°	62.6	61.7	61.1	58.4	54.8	53.3	52.7	53.6	55.1	55.4
157.5°	62.0	59.9	59.0	57.2	54.5	53.0	53.0	53.9	54.8	55.1
160°	60.2	57.5	57.2	55.4	54.8	53.9	54.5	54.8	55.7	55.4
162.5°	58.7	56.9	56.6	55.4	56.0	56.9	56.9	57.2	57.8	57.5
165°	58.1	56.6	56.3	56.3	58.1	59.6	59.9	59.6	59.6	59.6
167.5°	58.7	57.8	57.5	58.1	59.6	61.4	61.7	61.1	60.5	60.2
170°	59.6	59.3	59.6	59.9	60.8	62.0	62.0	61.4	61.4	61.4
172.5°	60.5	61.1	61.4	61.4	62.3	62.9	63.2	62.9	62.9	62.9
175°	62.3	62.6	62.6	62.9	63.8	64.4	65.0	65.0	65.0	65.0
177.5°	64.4	64.4	64.4	64.7	65.0	65.9	66.2	66.8	67.1	67.1
180°	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2

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: SP1-2501-332-3

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

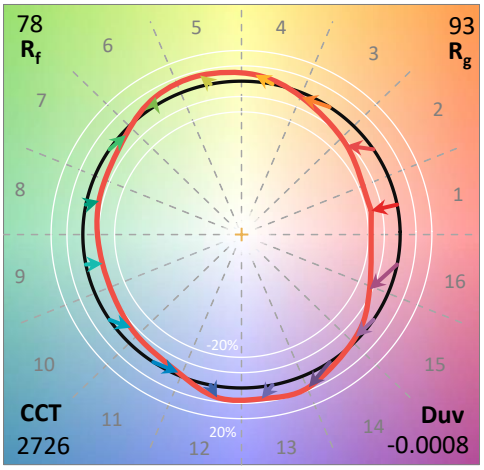
Test Information

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

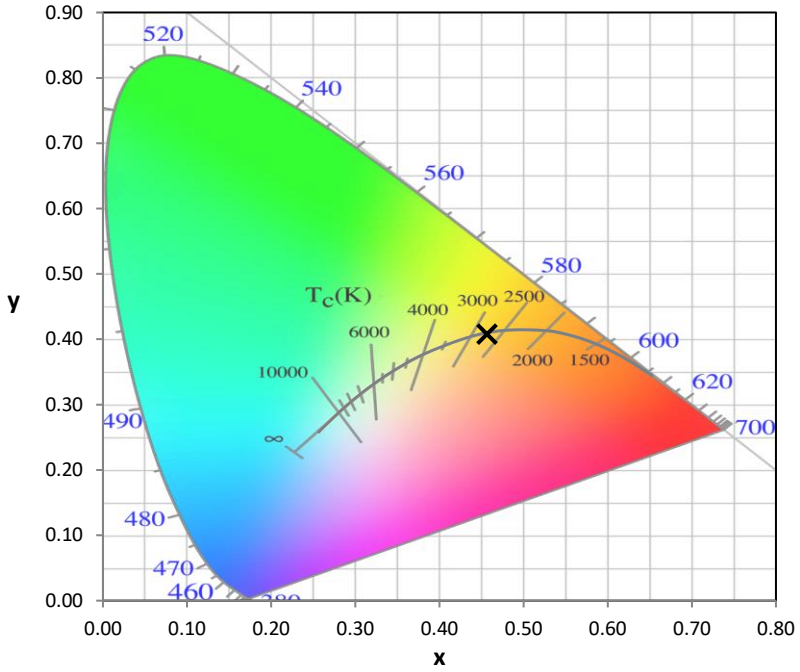
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

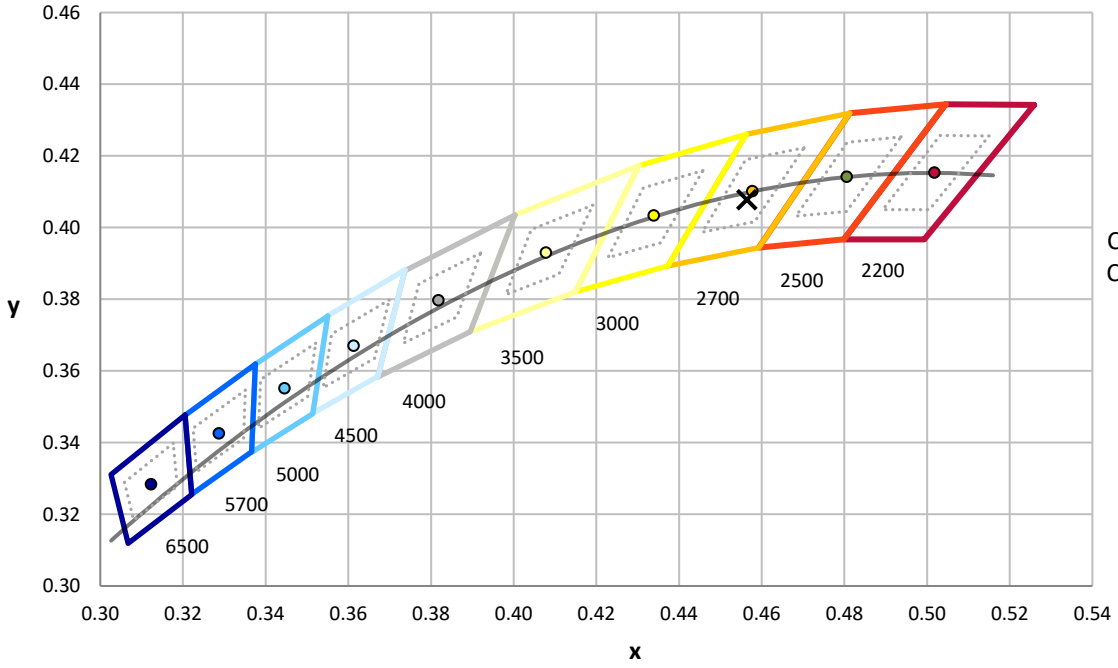
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

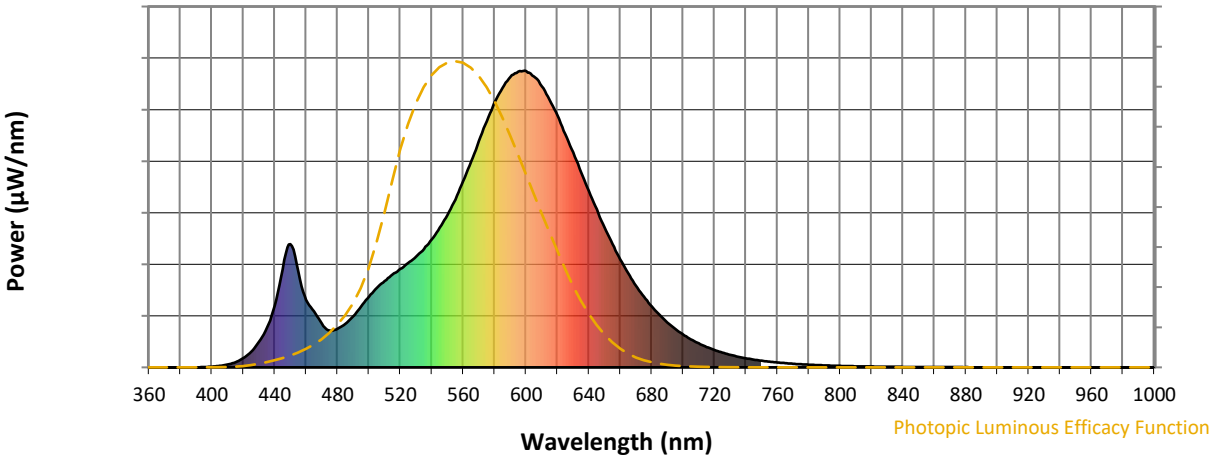


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

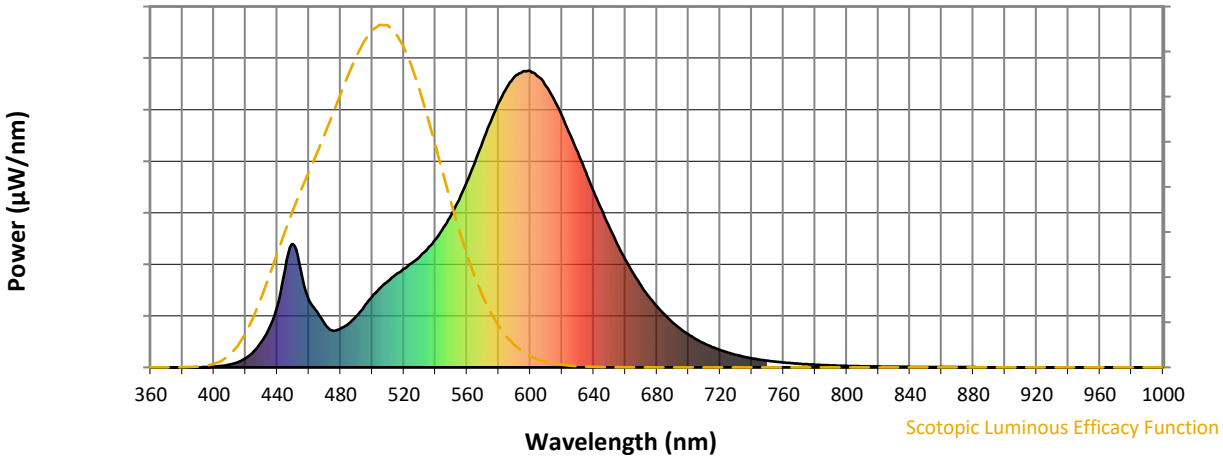


Photopic Lumens: NR

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

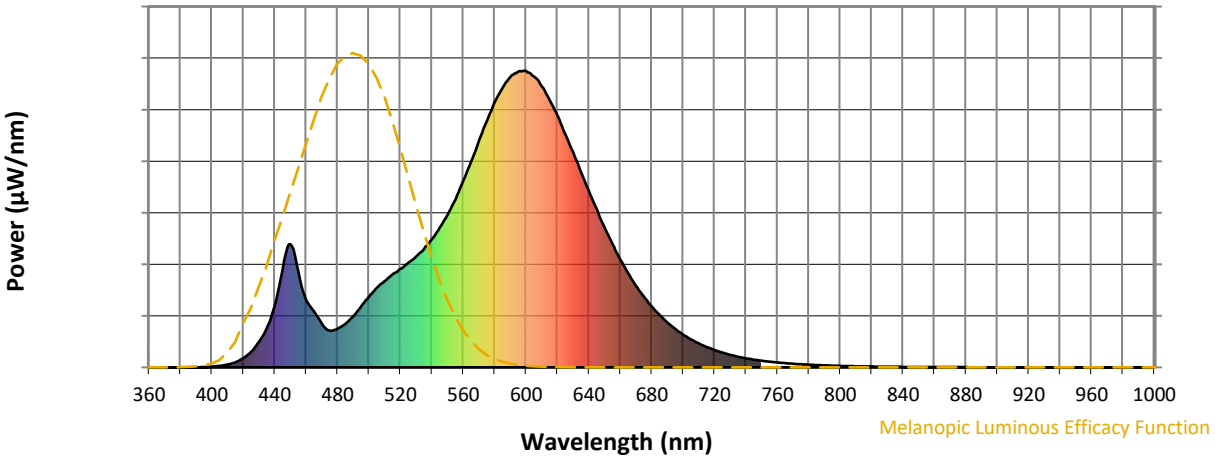


Scotopic Lumens: NR **S/P: 1.16**

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			

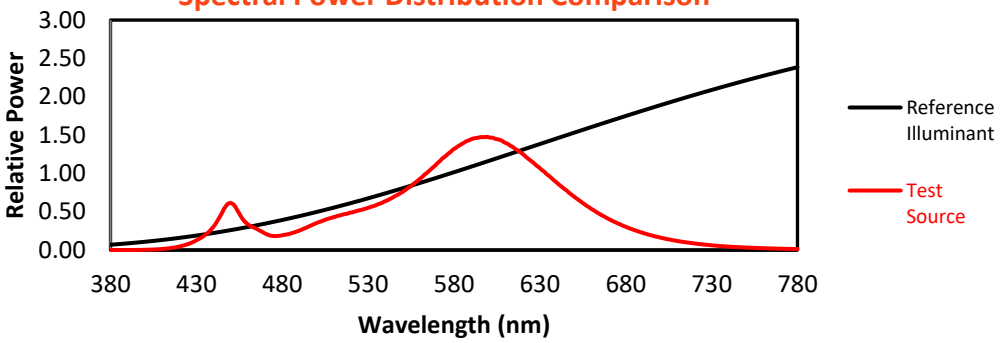
REPORT NUMBER: SP1-2501-332-3

TM-30-18

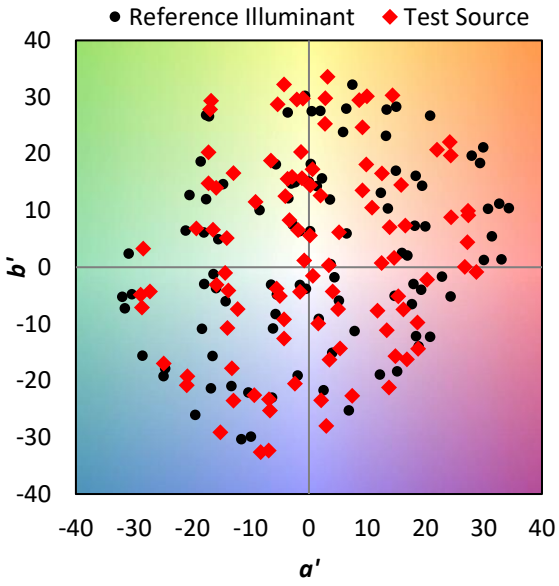
Summary

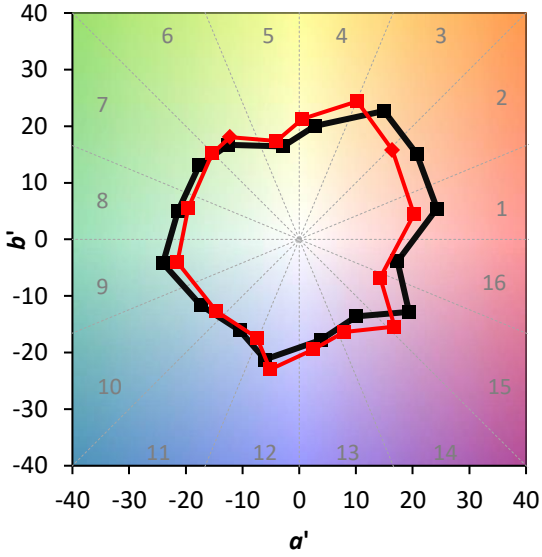
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R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

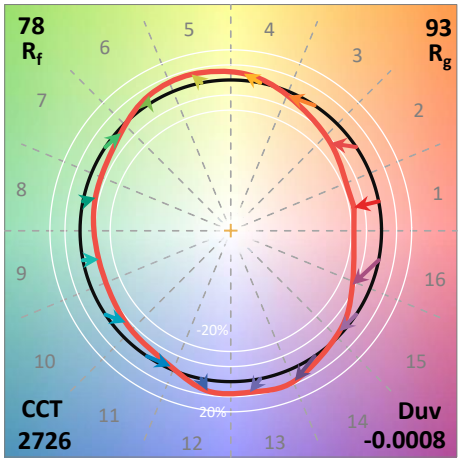
Spectral Power Distribution Comparison

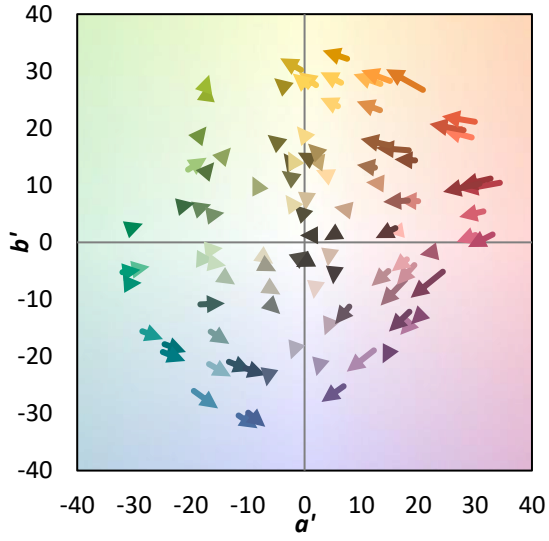


Color Vector Graphics







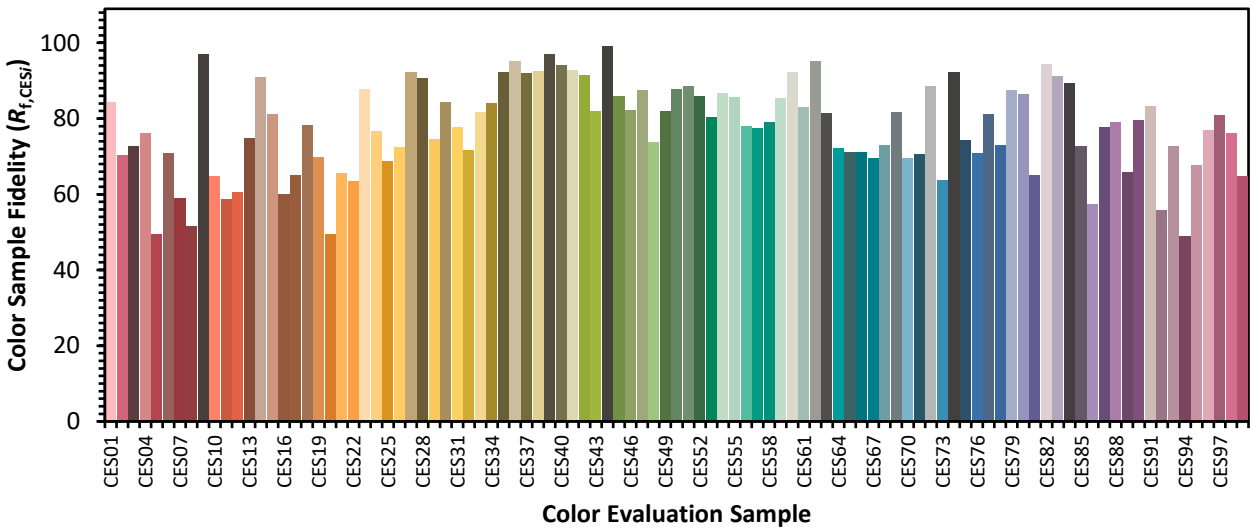


REPORT NUMBER: SP1-2501-332-3

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

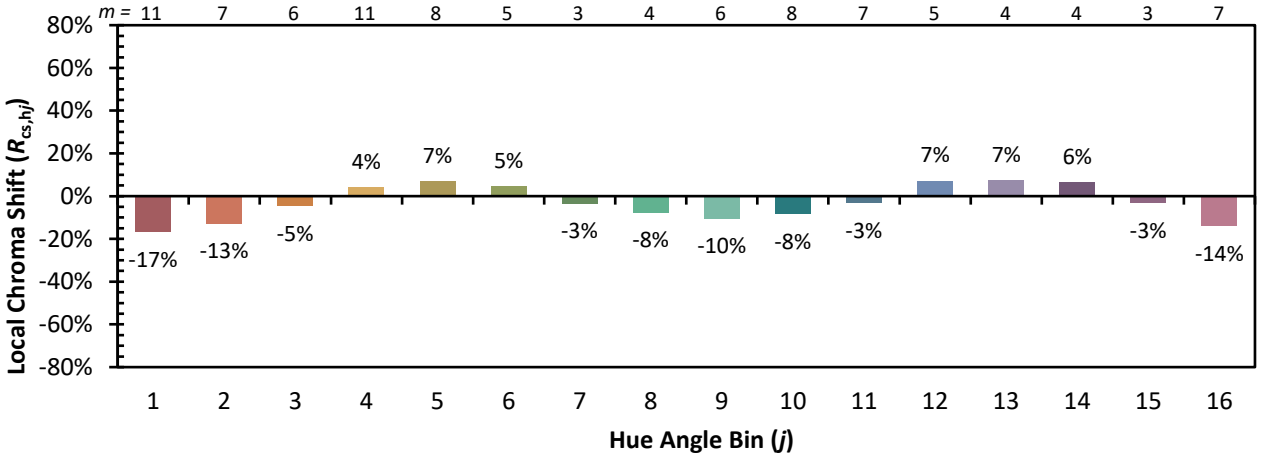
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CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 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	

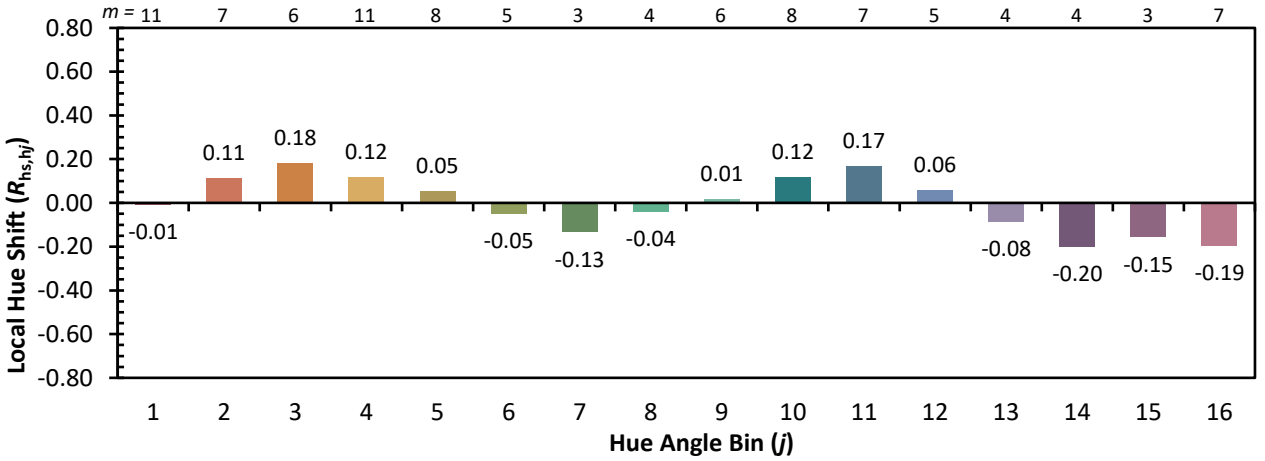


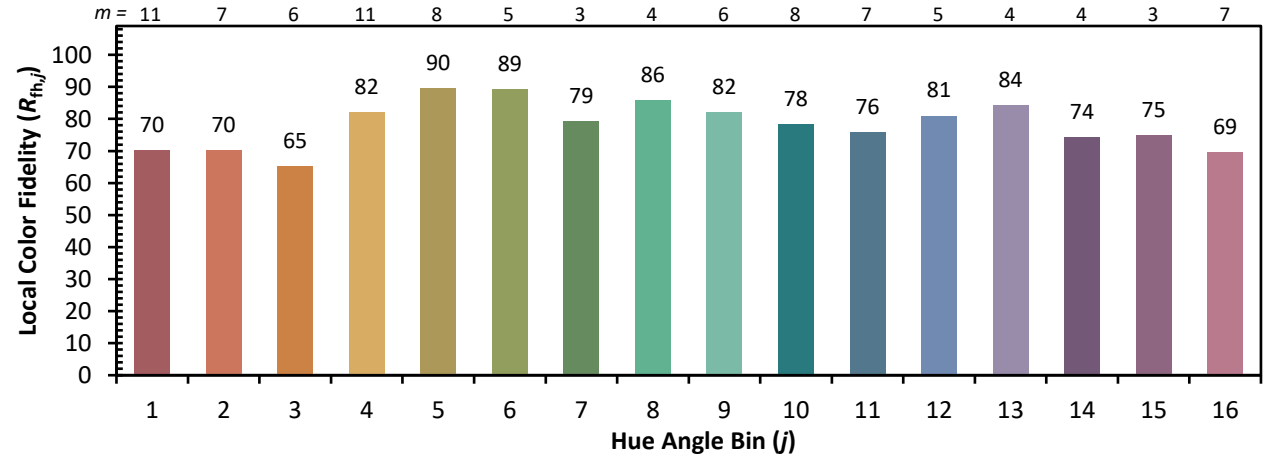
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



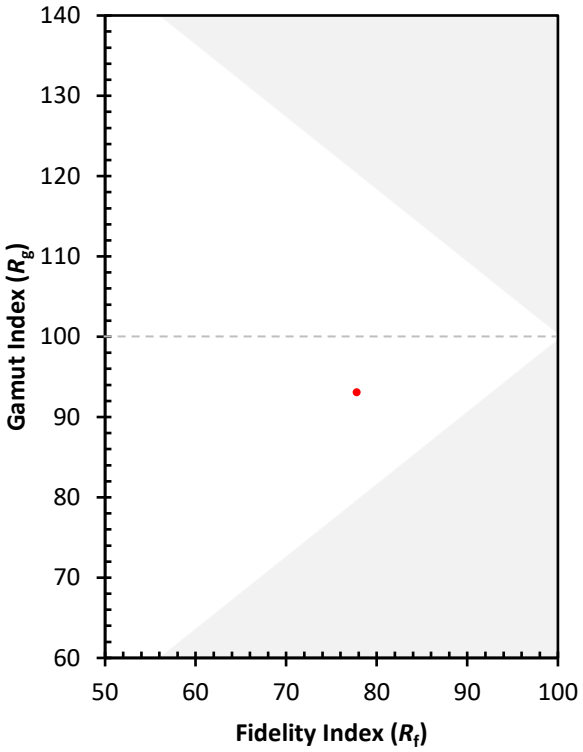


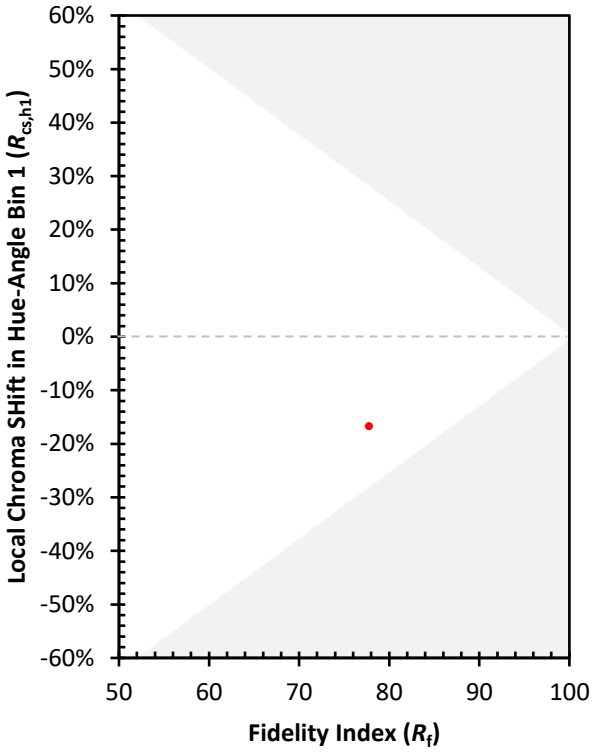


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TM-30-18

Measure Comparisons





(END OF REPORT)