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: P1045739

Luminaire Tested: **FFX-CLB-30-722-U-FR-T5-UPLR-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045739
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-722-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2671.4 lumens
Efficiency:	N/A
Efficacy:	87.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - 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

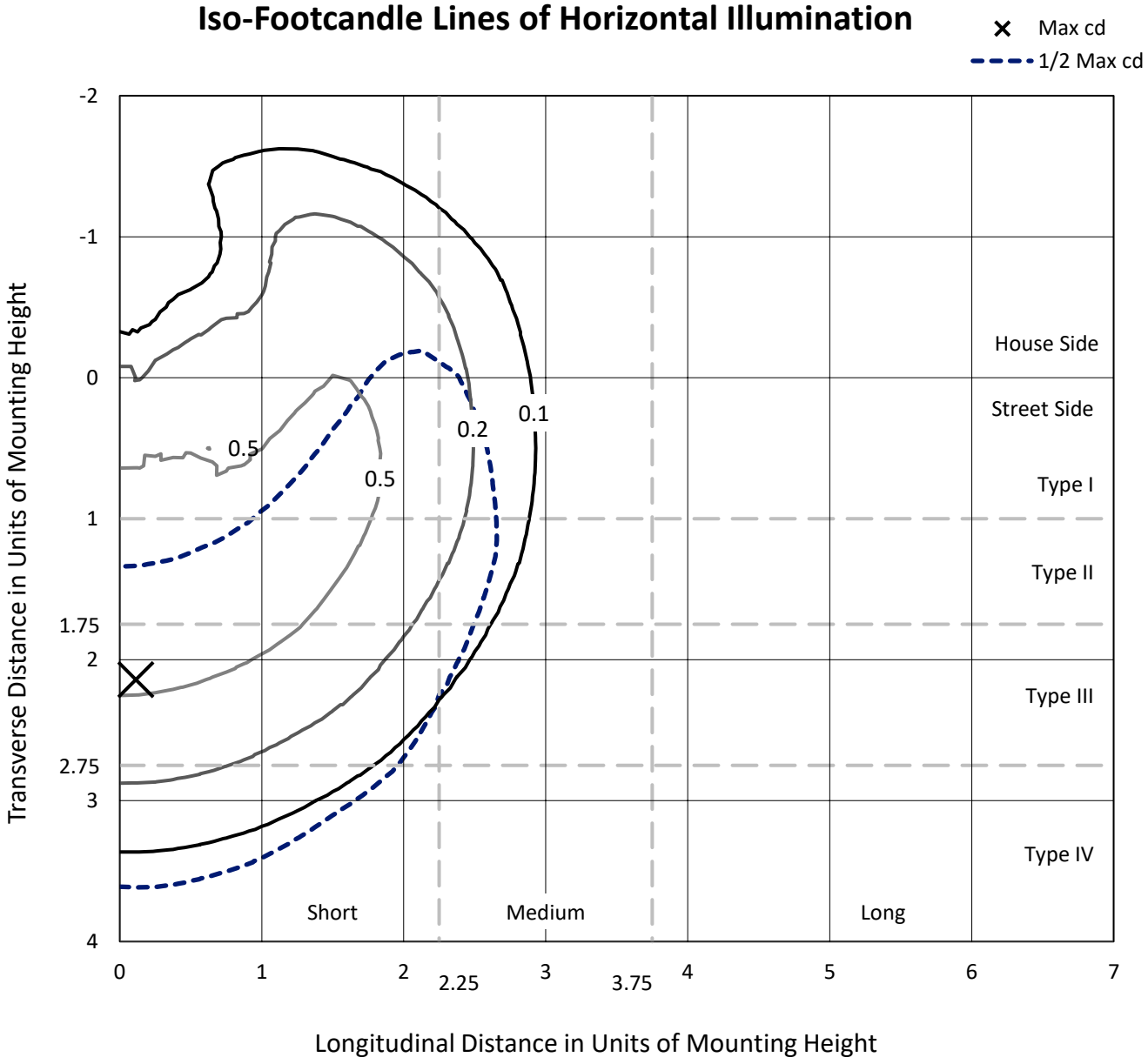


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Iso-Footcandle Lines of Horizontal Illumination



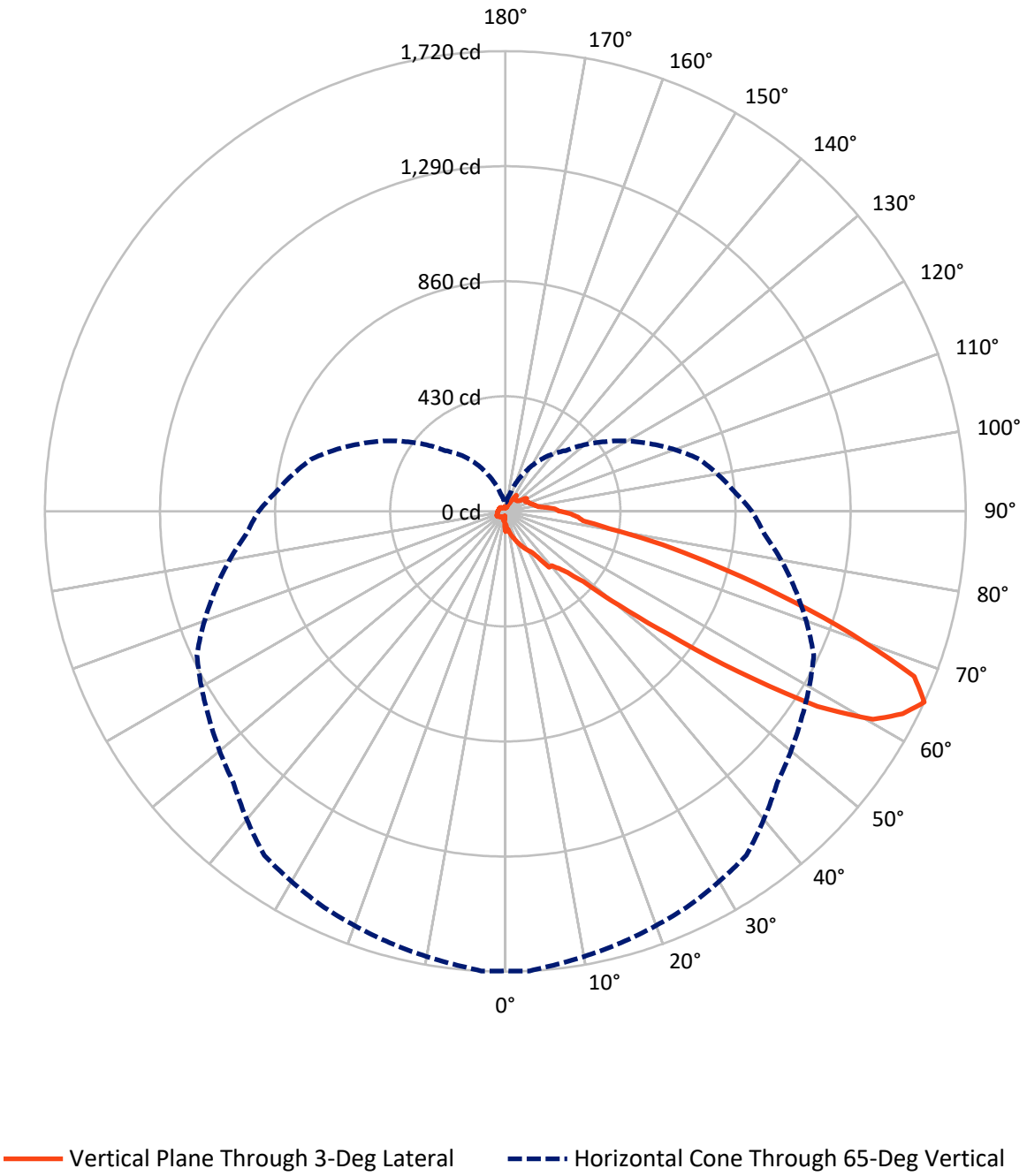
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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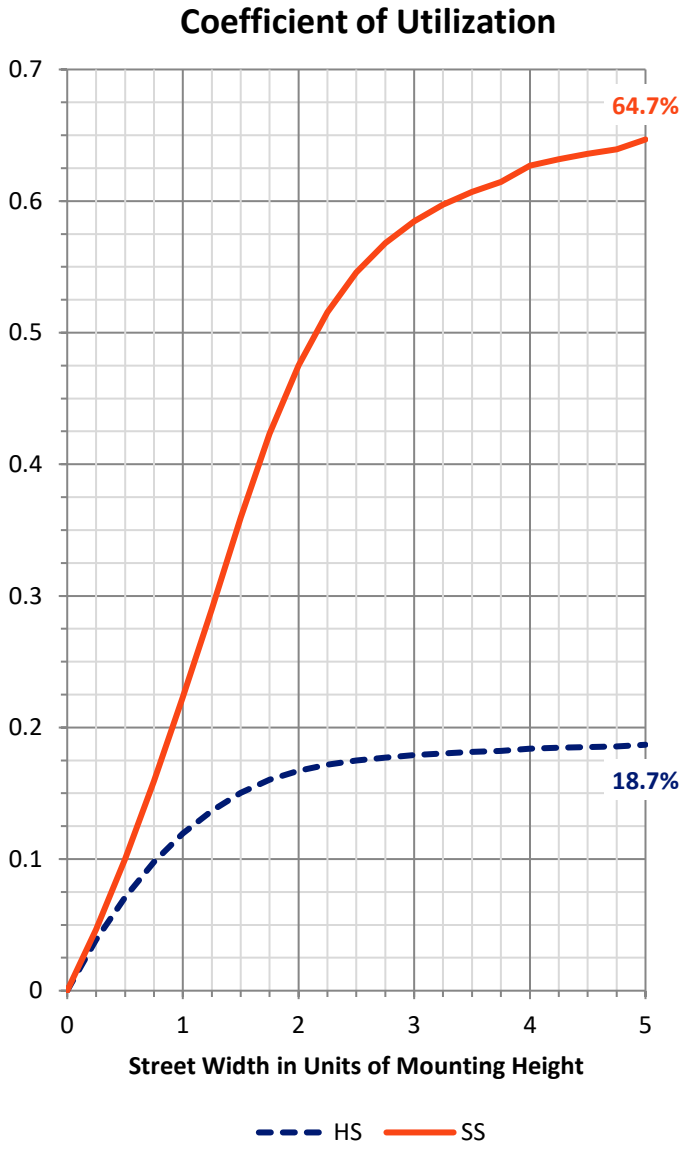
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.8	112.4	629.2
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	1802.2	240.0	2042.2
	% Fixture	67.5	9.0	76.4
Total	Lumens	2319.1	352.3	2671.4
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.2
10°-20°	18.2	0.7
20°-30°	40.6	1.5
30°-40°	82.1	3.1
40°-50°	164.9	6.2
50°-60°	529.1	19.8
60°-70°	843.9	31.6
70°-80°	459.1	17.2
80°-90°	176.4	6.6
90°-100°	105.2	3.9
100°-110°	69.8	2.6
110°-120°	55.6	2.1
120°-130°	46.3	1.7
130°-140°	31.9	1.2
140°-150°	25.8	1.0
150°-160°	11.5	0.4
160°-170°	4.7	0.2
170°-180°	1.6	0.1
0°-90°	2319.1	86.8
0°-180°	2671.4	100.0



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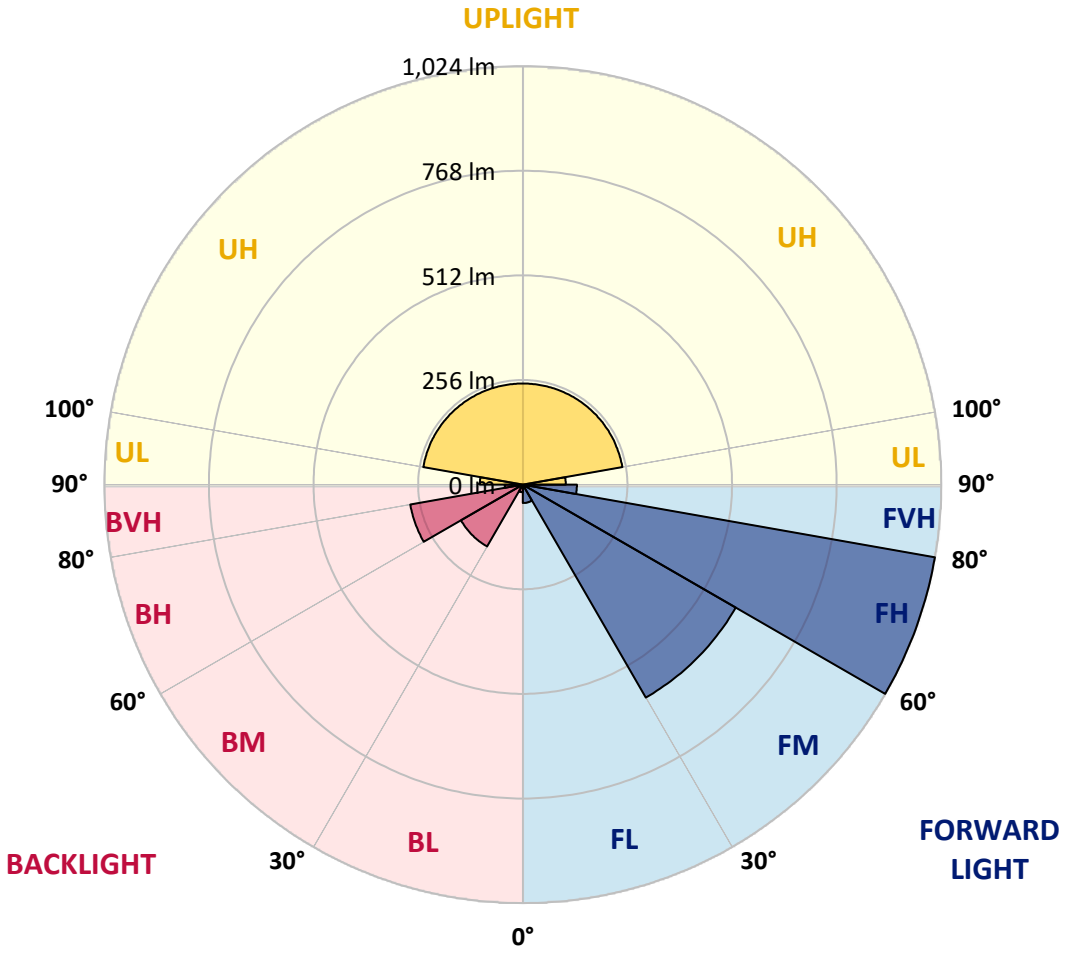
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	45.0	1.7			
FM	(30°-60°)	601.4	22.5			
FH	(60°-80°)	1023.5	38.3			G1/1800
FVH	(80°-90°)	132.2	5.0			G2/225
BL	(0°-30°)	18.5	0.7	B0/110		
BM	(30°-60°)	174.6	6.5	B0/220		
BH	(60°-80°)	279.5	10.5	B1/500		G1/500
BVH	(80°-90°)	44.2	1.7			G1/100
UL	(90°-100°)	105.2	3.9		U3/500	
UH	(100°-180°)	247.2	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	48.8	48.5	49.4	53.7	64.8	68.4	65.4	60.2	59.2	64.8	69.1
5°	66.6	66.0	65.4	61.1	56.8	58.9	65.1	66.6	60.5	49.1	41.7
7.5°	67.5	66.9	67.2	67.2	66.3	62.3	57.7	59.9	65.1	58.0	45.7
10°	75.2	74.9	74.9	74.6	73.7	72.4	72.1	67.5	59.5	53.4	50.9
12.5°	87.8	87.8	87.5	87.2	86.2	84.1	81.3	77.7	75.2	67.8	60.2
15°	97.9	97.0	97.6	96.7	95.1	93.9	90.5	86.6	79.2	74.3	67.5
17.5°	107.7	107.7	108.0	106.5	104.7	103.7	100.1	94.8	87.8	79.2	72.7
20°	120.0	119.1	119.1	117.6	115.4	112.3	109.0	104.4	98.5	86.9	78.3
22.5°	131.7	132.0	132.0	129.5	126.1	123.4	118.8	113.3	107.7	95.8	84.7
25°	144.9	144.6	144.3	143.9	140.6	135.7	129.8	124.0	120.0	108.3	93.0
27.5°	157.1	156.5	156.2	157.8	154.7	149.8	141.2	134.1	129.8	117.9	100.7
30°	170.7	170.3	170.3	171.0	169.7	162.1	152.8	144.6	138.4	126.5	108.0
32.5°	182.6	182.0	182.3	184.8	184.5	174.6	166.4	156.2	148.6	139.0	118.8
35°	212.1	210.9	212.7	216.4	219.1	208.7	197.4	181.7	170.0	160.2	139.3
37.5°	265.2	265.5	266.1	261.2	250.8	243.1	237.6	225.0	210.6	194.0	169.4
40°	267.3	267.0	268.6	275.9	280.2	267.0	254.1	239.4	235.7	221.6	190.3
42.5°	292.2	290.4	291.9	298.9	304.8	296.8	285.4	260.6	247.1	234.5	208.7
45°	327.8	325.7	328.4	329.6	328.4	319.8	321.7	301.4	288.8	263.3	227.4
47.5°	382.1	391.9	393.5	393.8	406.1	394.4	387.0	367.7	339.2	308.8	267.9
50°	536.5	552.5	546.9	541.7	542.6	533.7	523.6	496.9	458.5	407.3	349.0
52.5°	765.8	759.6	760.6	763.9	772.5	732.9	715.8	675.5	613.5	552.2	468.1
55°	1046.3	1056.8	1056.1	1067.2	1065.7	1023.0	968.7	901.1	810.9	721.0	621.5
57.5°	1393.1	1374.7	1362.5	1342.2	1324.7	1266.7	1230.8	1157.7	1038.3	903.3	775.6
60°	1587.7	1577.6	1574.5	1546.6	1522.7	1451.5	1377.5	1298.3	1205.0	1045.4	900.5
62.5°	1660.8	1665.7	1661.4	1643.3	1627.3	1565.0	1440.7	1354.5	1271.0	1117.5	965.0
65°	1717.0	1719.7	1709.9	1668.8	1625.2	1569.3	1435.5	1350.5	1271.3	1120.3	971.1
67.5°	1648.2	1647.6	1639.9	1580.7	1507.0	1451.8	1330.2	1238.8	1171.5	1045.4	901.4
70°	1368.6	1370.4	1372.0	1328.4	1247.7	1206.5	1083.5	1004.9	946.9	837.9	734.5
72.5°	1071.5	1077.0	1079.5	1045.4	985.5	943.2	860.9	802.0	748.0	661.4	580.1
75°	806.0	811.5	810.0	788.8	746.8	735.1	695.2	644.9	599.7	532.5	463.8
77.5°	604.6	600.0	598.8	578.3	536.8	539.9	528.5	499.7	464.7	425.1	377.2
80°	400.5	396.6	388.6	395.6	392.3	382.4	363.7	349.0	335.2	311.5	285.4
82.5°	294.7	293.4	291.9	287.3	284.2	281.8	273.5	249.8	233.3	219.8	204.1
85°	275.6	271.9	272.6	264.6	255.1	246.5	240.0	229.9	217.0	195.8	173.1
87.5°	240.6	240.6	238.8	233.3	223.8	221.6	217.0	209.9	202.3	186.0	165.7
90°	200.1	198.9	198.9	198.6	196.4	194.9	186.0	179.6	176.2	159.9	145.8
92.5°	184.8	184.2	182.9	181.4	175.3	174.0	165.1	156.8	149.5	139.3	128.3
95°	150.1	151.3	148.6	148.2	145.2	143.3	136.3	132.3	127.4	119.1	109.0
97.5°	126.8	124.9	125.2	122.5	119.4	118.2	113.9	108.0	103.4	97.0	89.6
100°	116.3	116.0	115.4	113.3	109.0	106.2	101.6	96.1	91.5	85.6	79.5
102.5°	109.6	109.3	109.0	107.1	102.2	100.7	96.4	92.1	88.1	82.9	74.9
105°	102.8	102.5	101.9	99.8	96.7	95.1	91.2	88.7	84.7	80.1	72.4
107.5°	96.7	96.7	96.4	93.9	92.1	90.9	86.9	84.7	80.4	76.4	69.1
110°	93.6	93.6	93.3	91.5	87.8	85.9	82.3	79.5	75.5	71.5	65.7

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	90.2	*90.5*	90.5	91.2	82.3	78.9	75.8	73.7	70.3	66.6	61.7
115°	82.6	*82.9*	82.6	85.6	82.6	78.0	76.1	72.4	68.1	62.3	57.1
117.5°	83.2	*83.2*	83.8	85.3	83.8	79.5	75.5	70.9	67.2	61.4	56.8
120°	94.2	*93.6*	93.6	90.5	89.9	85.9	83.2	78.3	72.1	66.3	59.9
122.5°	90.5	*90.2*	90.5	85.6	85.3	84.4	83.5	82.6	74.6	71.2	62.9
125°	72.4	*71.8*	71.5	69.7	72.7	70.6	70.0	72.1	66.9	63.8	59.2
127.5°	64.8	*64.1*	63.8	63.2	65.1	61.4	60.8	61.4	57.4	53.7	50.9
130°	62.0	*61.1*	61.1	63.2	66.0	62.9	59.5	57.1	55.6	53.1	48.5
132.5°	58.6	*58.6*	58.9	61.7	66.6	63.2	57.1	52.2	51.6	51.9	49.7
135°	57.7	*57.4*	57.7	56.8	56.5	54.6	51.9	47.9	47.0	49.4	47.0
137.5°	59.2	*58.9*	58.6	56.2	53.4	51.9	51.3	48.8	46.3	44.8	42.4
140°	58.6	*58.6*	58.3	57.7	55.9	52.8	52.2	49.7	47.3	44.5	41.4
142.5°	59.5	*60.5*	61.1	61.7	61.1	57.7	54.3	50.3	47.6	46.0	42.7
145°	73.4	*73.4*	73.4	72.1	70.0	67.2	64.8	62.0	59.9	54.9	50.3
147.5°	60.8	*60.8*	60.5	60.8	60.8	59.5	59.2	58.3	58.6	56.2	51.6
150°	42.0	*43.0*	43.0	44.5	45.1	44.5	44.5	45.1	44.2	43.9	41.4
152.5°	34.1	*33.8*	33.1	33.8	33.8	34.1	34.1	33.5	33.1	33.1	31.6
155°	30.1	*30.1*	30.1	29.8	29.2	29.5	29.8	29.8	28.9	28.2	27.0
157.5°	23.9	*23.6*	23.6	24.2	24.2	24.2	24.2	24.2	24.2	24.6	24.9
160°	20.3	*19.6*	20.0	20.0	20.3	20.6	20.3	20.6	20.6	20.9	20.6
162.5°	16.6	*16.3*	16.3	16.6	16.9	17.2	17.5	17.5	17.8	18.4	18.7
165°	14.7	*14.7*	14.7	15.0	15.0	15.3	15.7	16.0	16.6	17.5	17.8
167.5°	13.8	*13.8*	13.8	13.8	14.1	14.4	15.0	16.0	16.6	17.5	17.5
170°	13.5	*13.5*	13.8	13.8	13.8	14.1	15.3	16.3	16.6	16.9	16.9
172.5°	14.1	*14.1*	14.1	14.1	14.1	14.7	16.3	16.6	16.6	16.6	16.9
175°	14.7	*14.7*	14.4	14.4	14.7	15.0	15.3	16.9	17.5	17.8	18.4
177.5°	13.8	*13.8*	13.8	14.1	14.1	14.4	14.7	15.3	15.3	16.0	16.9
180°	15.3	*15.3*	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	72.1	77.3	70.9	64.1	59.2	62.0	65.1	62.6	59.9	60.2	54.9
5°	43.3	44.5	45.1	39.3	32.5	36.2	44.2	41.4	31.9	17.8	15.3
7.5°	41.7	39.9	39.3	43.6	39.6	26.4	20.6	18.7	24.9	29.8	31.3
10°	49.4	47.3	42.7	35.0	31.0	29.2	28.5	27.3	23.6	18.4	17.5
12.5°	56.8	54.3	50.0	46.3	41.1	34.4	30.1	28.9	31.0	34.7	34.7
15°	64.1	60.8	55.2	50.3	46.3	39.0	33.5	28.5	27.9	28.9	28.9
17.5°	69.4	65.7	59.2	52.5	45.4	38.4	31.9	27.0	24.9	24.2	24.2
20°	74.6	71.2	63.5	56.2	47.6	39.3	31.9	26.7	24.2	23.3	23.0
22.5°	81.3	77.0	68.4	60.5	50.0	39.9	31.6	27.0	24.2	22.7	22.4
25°	89.0	84.1	74.3	64.8	52.5	40.5	31.9	27.3	24.6	22.7	22.4
27.5°	95.1	89.9	80.4	69.7	55.6	42.0	33.1	27.9	24.9	23.0	22.7
30°	102.2	96.7	85.9	74.9	59.2	44.5	35.6	29.8	26.1	23.6	23.6
32.5°	112.9	105.6	93.6	79.8	62.9	47.3	38.4	31.9	27.3	25.5	25.5
35°	130.4	123.1	107.1	89.3	66.9	50.0	40.5	34.1	28.9	26.4	26.4
37.5°	158.4	147.3	129.5	105.0	73.4	52.2	43.0	35.6	29.8	26.4	25.8
40°	174.6	162.4	140.0	116.6	81.3	54.9	44.8	36.8	30.4	26.7	26.4
42.5°	192.8	178.6	149.8	119.7	86.6	61.4	47.6	38.1	31.0	27.6	27.0
45°	211.8	198.3	172.2	136.0	98.8	70.3	52.2	40.5	32.8	28.9	28.2
47.5°	246.5	229.9	196.1	159.0	116.9	84.4	62.3	44.5	35.0	30.1	29.5
50°	324.4	309.1	262.1	206.6	145.8	104.7	78.0	52.8	38.4	31.0	30.1
52.5°	430.0	402.7	349.6	279.9	203.5	146.7	104.0	71.2	43.6	31.9	30.4
55°	583.5	553.1	474.5	383.7	278.7	213.0	157.5	107.1	62.0	32.8	30.1
57.5°	736.0	699.2	633.2	508.9	374.5	271.6	210.6	156.8	90.2	36.8	31.0
60°	845.3	800.5	718.8	605.0	454.3	319.5	237.9	171.0	100.4	37.8	31.9
62.5°	909.7	853.6	751.1	615.1	473.3	339.5	248.9	161.4	86.2	36.8	33.1
65°	*921.4*	*857.6*	*751.1*	*597.6*	*453.6*	*322.0*	*240.6*	*149.2*	*68.1*	*35.3*	*34.1*
67.5°	854.5	794.9	705.0	548.8	402.4	276.5	207.2	122.8	51.9	34.1	33.8
70°	701.3	656.5	583.2	448.4	326.6	225.0	164.8	94.5	42.0	32.5	31.9
72.5°	547.3	505.8	450.9	351.7	252.6	178.3	125.8	74.0	37.4	31.3	31.0
75°	430.6	399.6	354.2	277.8	190.0	135.0	95.5	55.9	33.8	30.7	30.1
77.5°	352.4	332.1	285.1	212.1	141.8	100.4	71.2	44.5	32.2	30.1	29.8
80°	274.1	257.2	227.7	158.7	101.6	75.5	56.2	39.3	31.3	29.8	29.5
82.5°	195.5	189.7	164.8	123.4	84.7	64.8	50.6	37.8	31.0	29.5	29.2
85°	163.3	155.0	136.6	107.1	78.0	61.7	48.5	37.1	31.0	29.5	29.2
87.5°	157.8	150.4	133.5	102.2	73.4	58.0	46.3	35.9	30.4	28.9	28.9
90°	139.3	132.0	119.1	92.1	67.5	54.0	43.3	34.1	29.2	27.6	27.6
92.5°	123.4	119.1	106.8	84.4	64.8	51.9	41.7	33.1	28.5	27.3	27.0
95°	104.4	100.7	91.2	76.1	60.8	49.4	40.5	32.2	27.9	26.7	26.7
97.5°	86.6	83.5	76.1	64.5	52.5	43.9	36.5	30.4	27.0	26.1	26.1
100°	76.4	74.0	67.5	58.0	48.5	41.1	35.3	30.1	26.7	25.5	25.5
102.5°	72.4	70.0	63.5	54.9	46.0	39.3	34.4	29.5	26.4	25.2	24.9
105°	69.4	66.9	61.1	52.2	43.6	37.4	32.5	28.9	25.8	24.9	24.6
107.5°	66.3	63.5	58.0	49.1	41.4	35.6	31.3	27.9	25.5	24.6	24.6
110°	62.9	60.5	55.2	46.7	39.9	34.4	30.7	27.6	25.5	24.6	24.6

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

Scaled Data Report

REPORT NUMBER: P1045739
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	59.2	56.8	51.9	44.2	38.4	33.5	30.1	27.3	25.5	24.6	24.6
115°	54.9	52.8	48.2	41.7	36.5	32.2	29.2	26.7	24.9	24.2	24.2
117.5°	53.7	51.3	46.7	40.8	35.9	31.3	28.5	26.1	24.6	23.9	23.9
120°	56.5	53.1	48.2	42.7	35.9	30.7	27.9	25.8	24.2	23.6	23.6
122.5°	60.2	57.4	51.9	41.7	34.7	30.1	27.3	25.5	23.9	23.6	23.6
125°	56.8	54.9	49.7	38.7	33.5	29.5	27.0	25.5	24.2	23.6	23.6
127.5°	49.7	47.9	43.9	36.8	32.2	28.9	26.7	25.5	24.6	23.6	23.6
130°	47.0	44.5	40.8	35.3	31.0	27.9	26.4	25.5	24.6	23.3	23.0
132.5°	48.2	46.0	40.2	33.1	29.2	26.7	25.5	24.9	23.0	21.8	21.5
135°	45.4	43.3	37.4	31.6	28.2	26.4	25.2	23.3	21.5	20.0	20.0
137.5°	40.5	38.1	34.7	30.4	27.9	27.0	25.5	23.0	20.6	19.3	19.3
140°	40.2	37.4	34.4	30.1	27.3	24.9	23.0	20.6	18.7	18.1	17.8
142.5°	40.8	39.0	34.7	29.8	26.1	23.0	20.9	19.0	17.8	16.9	16.9
145°	47.3	44.5	39.0	32.5	28.2	24.6	21.5	19.0	17.2	15.7	15.3
147.5°	48.8	46.0	41.1	35.6	30.1	25.5	21.2	18.1	15.7	14.4	14.1
150°	40.8	39.0	36.2	31.9	27.0	22.4	18.7	16.0	14.4	13.8	13.5
152.5°	31.0	30.4	28.5	25.5	22.1	19.0	16.6	15.0	14.1	13.8	13.5
155°	26.4	26.1	24.2	21.8	19.0	16.9	15.3	14.4	13.8	13.8	13.5
157.5°	24.6	23.9	22.4	20.0	17.5	16.3	14.7	14.1	13.8	13.8	13.8
160°	20.6	20.0	18.7	17.8	16.3	15.3	14.4	14.1	13.8	13.8	13.5
162.5°	18.4	17.8	17.2	16.3	16.0	15.7	15.3	14.7	14.4	14.1	14.1
165°	17.5	17.2	16.3	16.0	16.0	16.3	16.3	15.7	15.0	14.4	14.4
167.5°	17.2	16.9	16.3	16.0	16.6	16.9	17.2	16.6	16.0	15.0	14.7
170°	17.2	17.2	16.9	16.6	16.9	17.2	17.5	17.5	17.2	16.6	16.6
172.5°	17.2	17.5	17.2	17.2	17.2	17.2	17.2	17.8	17.8	17.5	17.5
175°	18.4	18.4	17.5	17.2	17.5	17.8	18.1	17.8	17.8	18.1	18.1
177.5°	16.9	17.5	18.7	19.0	19.6	19.6	19.0	18.7	17.8	17.5	17.5
180°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3

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: SP1-2501-332-7

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-722-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

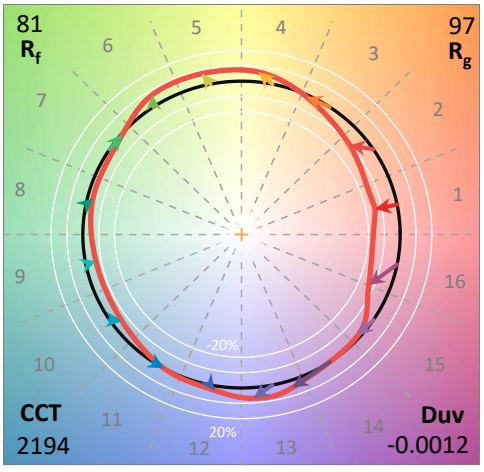
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-7
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-20-722-U-FR-T5-UPLR-P-HSS**
Description:	FAIRFAX ACORN W/ FAIRFAX T5 POLYCARBONATE REFRACTOR 20W WITH UPLIGHT REFLECTOR AND HOUSE SIDE SHIELD

Spectral Parameters

CCT (K):	2194	CRI (Ra):	76.9		
CIE u':	0.2907	R1:	75.7	R9:	-13.4
CIE v':	0.5343	R2:	91.6	R10:	84.3
Duv:	-0.0012	R3:	88.2	R11:	74.6
CIE x:	0.5035	R4:	73.5	R12:	85.6
CIE y:	0.4113	R5:	77.0	R13:	79.4
CIE z:	0.0852	R6:	93.6	R14:	93.9
Peak Wavelength (nm):	608	R7:	73.2	R15:	65.4
Dominant Wavelength (nm):	587	R8:	42.7		
Purity:	74.59755				

Rf:	81
Rg:	96.6



Test Conditions

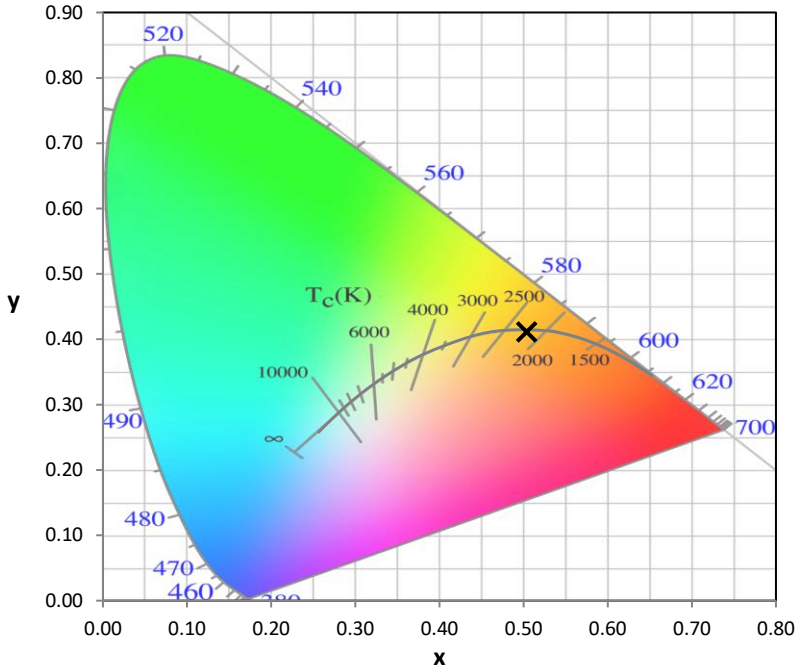
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

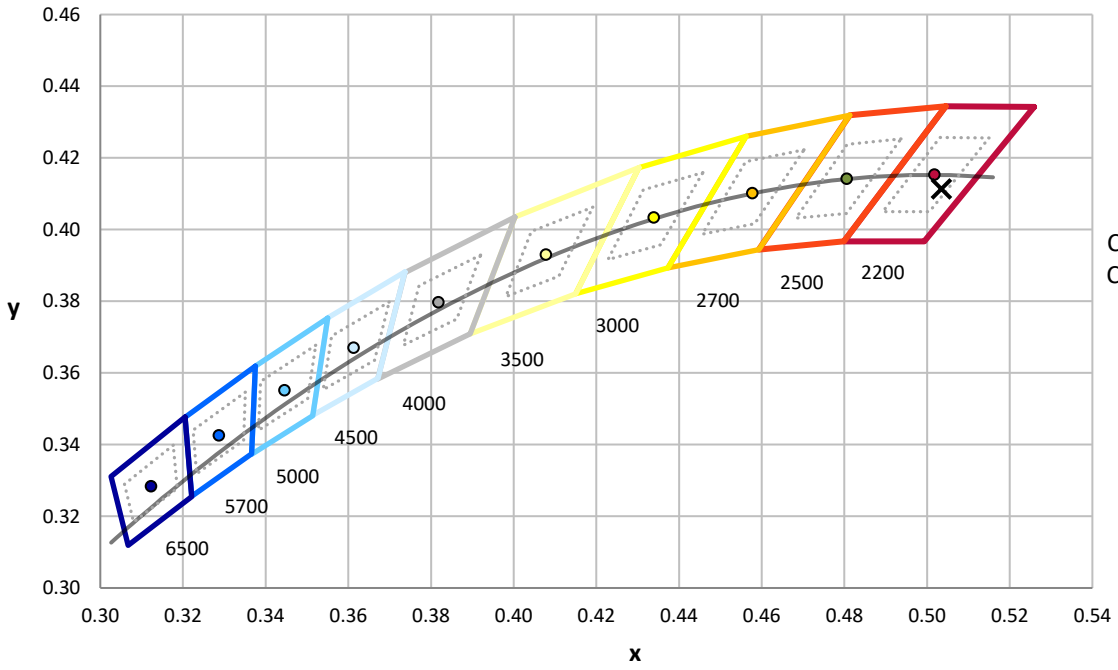
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-7

CIE 1931 Chromaticity Diagram



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

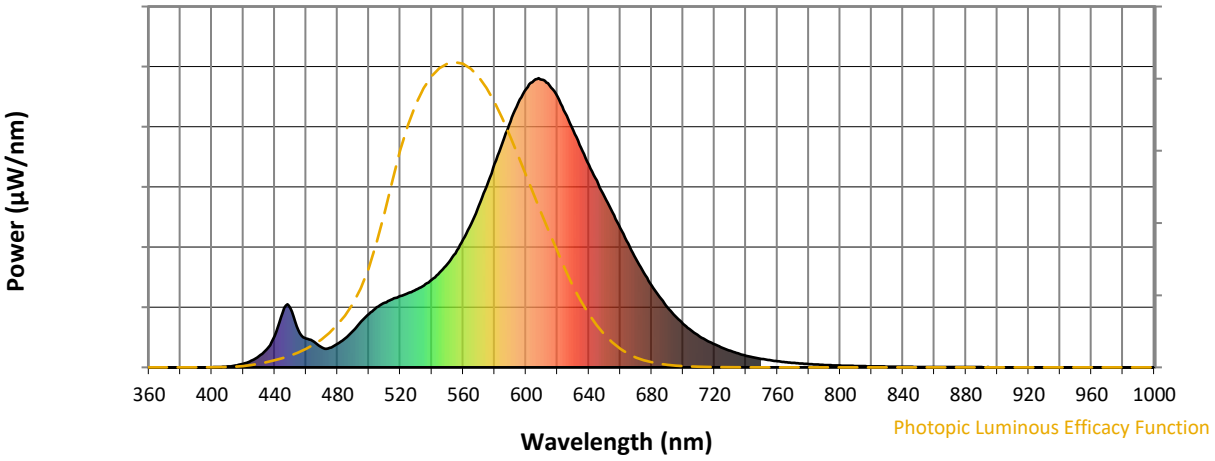


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

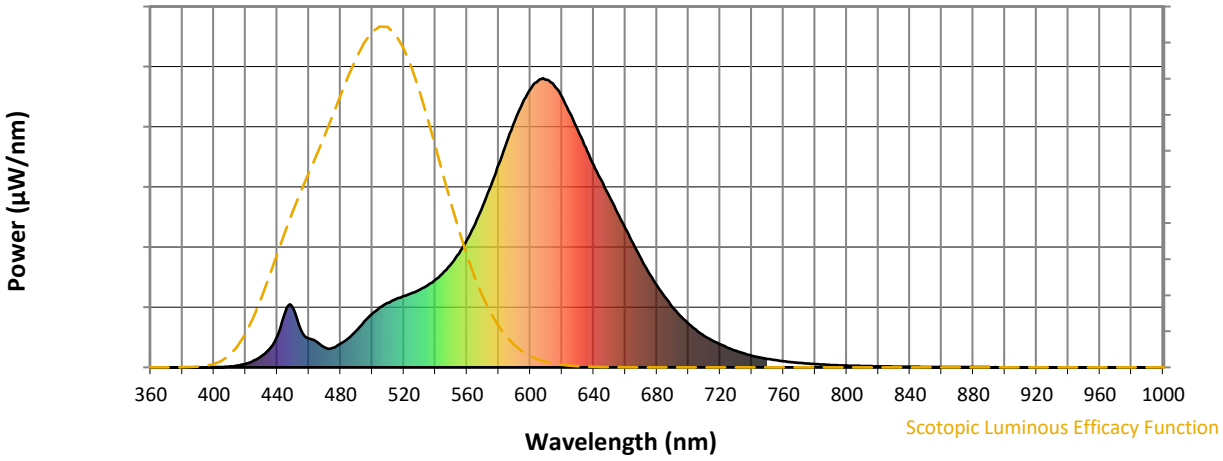


Photopic Lumens: NR

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Scotopic Flux vs. Wavelength

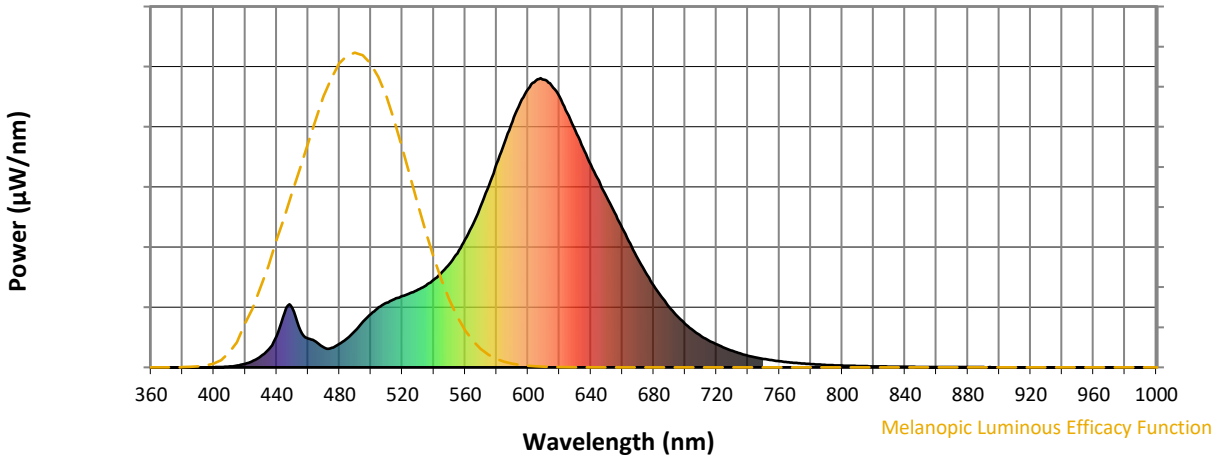


Scotopic Lumens: NR **S/P: 0.96**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-7

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.7**

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	127	NR	620	937	NR	750	29	NR	880	1	NR
365	0	NR	495	158	NR	625	880	NR	755	25	NR	885	1	NR
370	0	NR	500	185	NR	630	820	NR	760	21	NR	890	1	NR
375	0	NR	505	208	NR	635	760	NR	765	18	NR	895	1	NR
380	0	NR	510	224	NR	640	700	NR	770	15	NR	900	1	NR
385	0	NR	515	236	NR	645	646	NR	775	13	NR	905	0	NR
390	0	NR	520	247	NR	650	590	NR	780	11	NR	910	0	NR
395	0	NR	525	257	NR	655	535	NR	785	10	NR	915	0	NR
400	1	NR	530	269	NR	660	481	NR	790	8	NR	920	0	NR
405	1	NR	535	284	NR	665	428	NR	795	7	NR	925	0	NR
410	3	NR	540	303	NR	670	376	NR	800	6	NR	930	0	NR
415	6	NR	545	328	NR	675	327	NR	805	5	NR	935	0	NR
420	12	NR	550	358	NR	680	283	NR	810	5	NR	940	0	NR
425	23	NR	555	394	NR	685	244	NR	815	4	NR	945	0	NR
430	39	NR	560	442	NR	690	209	NR	820	4	NR	950	0	NR
435	63	NR	565	496	NR	695	178	NR	825	3	NR	955	0	NR
440	108	NR	570	559	NR	700	151	NR	830	3	NR	960	0	NR
445	190	NR	575	628	NR	705	128	NR	835	2	NR	965	0	NR
450	205	NR	580	704	NR	710	108	NR	840	2	NR	970	0	NR
455	128	NR	585	777	NR	715	93	NR	845	2	NR	975	0	NR
460	100	NR	590	850	NR	720	80	NR	850	2	NR	980	0	NR
465	89	NR	595	914	NR	725	67	NR	855	1	NR	985	0	NR
470	68	NR	600	963	NR	730	57	NR	860	1	NR	990	0	NR
475	67	NR	605	992	NR	735	48	NR	865	1	NR	995	0	NR
480	82	NR	610	995	NR	740	40	NR	870	1	NR	1000	0	NR
485	101	NR	615	975	NR	745	34	NR	875	1	NR			

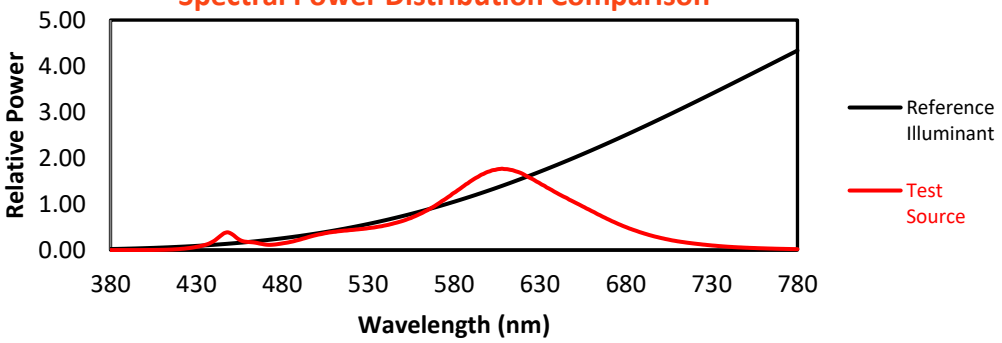
REPORT NUMBER: SP1-2501-332-7

TM-30-18

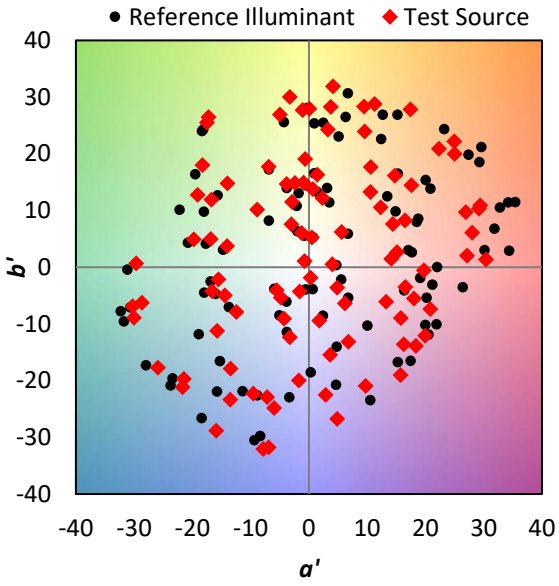
Summary

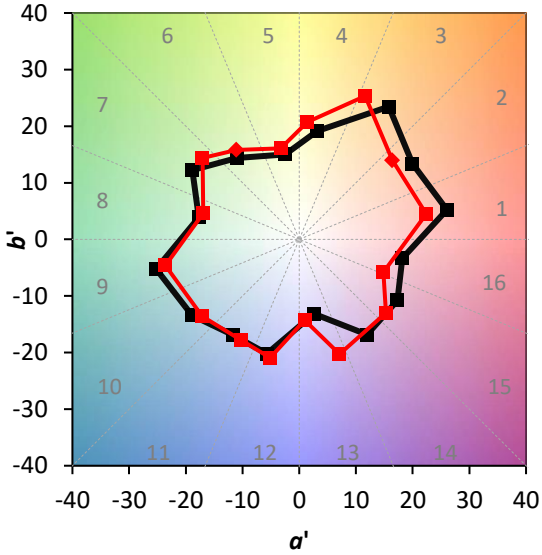
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

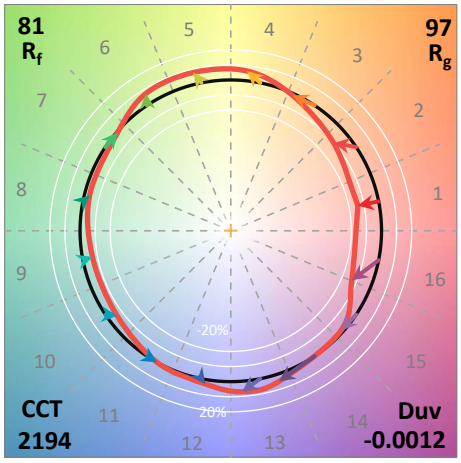
Spectral Power Distribution Comparison

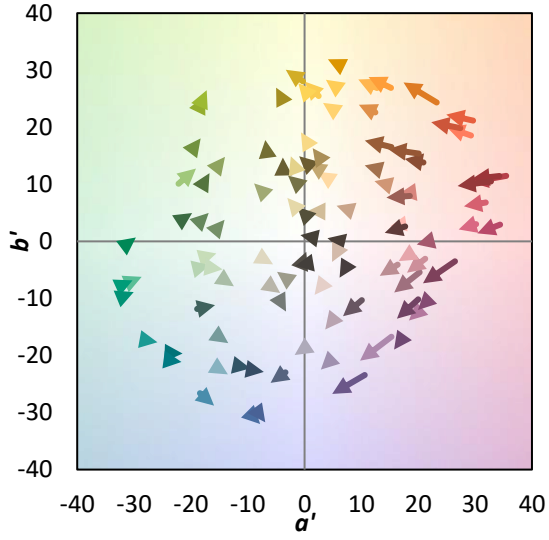


Color Vector Graphics







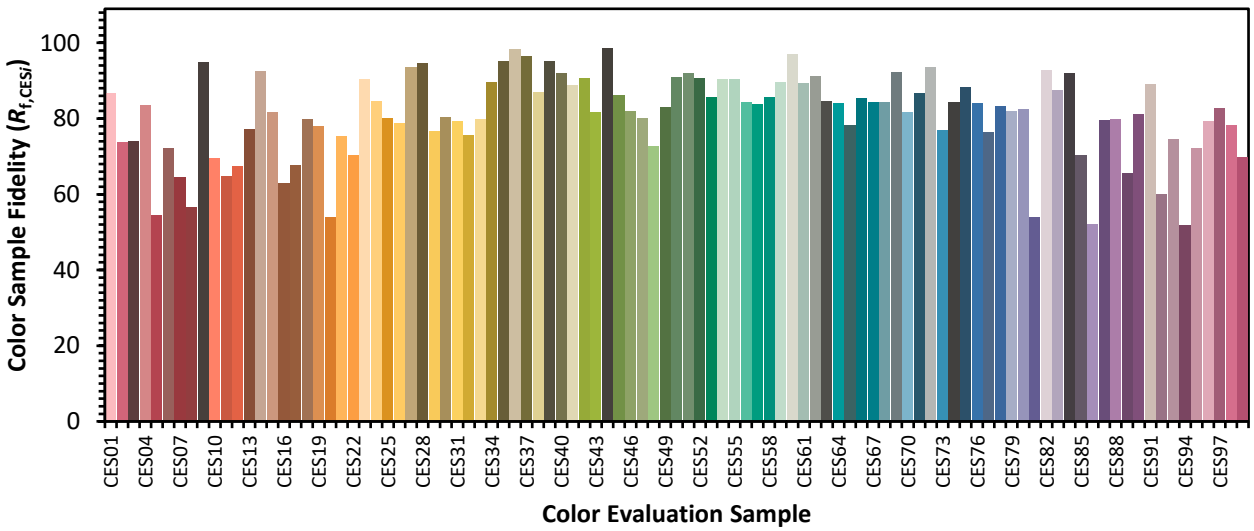


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

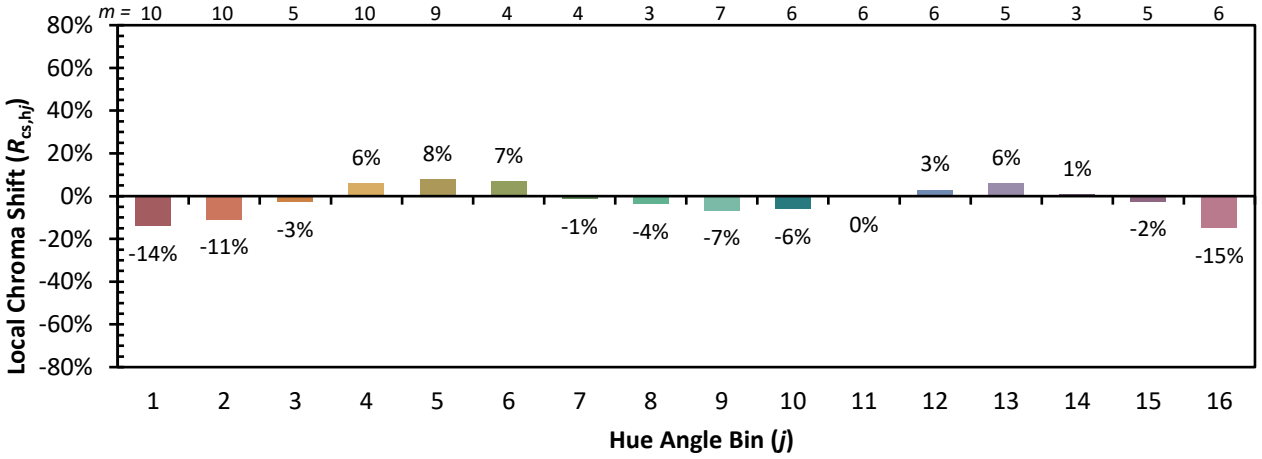
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 84	CES82 = 93
CES08 = 43	CES33 = 80	CES58 = 86	CES83 = 88
CES09 = 29	CES34 = 90	CES59 = 90	CES84 = 92
CES10 = 79	CES35 = 95	CES60 = 97	CES85 = 70
CES11 = 62	CES36 = 98	CES61 = 89	CES86 = 52
CES12 = 68	CES37 = 96	CES62 = 91	CES87 = 80
CES13 = 45	CES38 = 87	CES63 = 85	CES88 = 80
CES14 = 75	CES39 = 95	CES64 = 84	CES89 = 66
CES15 = 73	CES40 = 92	CES65 = 78	CES90 = 81
CES16 = 49	CES41 = 89	CES66 = 85	CES91 = 89
CES17 = 51	CES42 = 91	CES67 = 84	CES92 = 60
CES18 = 57	CES43 = 82	CES68 = 84	CES93 = 74
CES19 = 74	CES44 = 99	CES69 = 92	CES94 = 52
CES20 = 69	CES45 = 86	CES70 = 82	CES95 = 72
CES21 = 88	CES46 = 82	CES71 = 87	CES96 = 79
CES22 = 81	CES47 = 80	CES72 = 94	CES97 = 83
CES23 = 92	CES48 = 73	CES73 = 77	CES98 = 78
CES24 = 92	CES49 = 83	CES74 = 84	CES99 = 70
CES25 = 73	CES50 = 91	CES75 = 88	

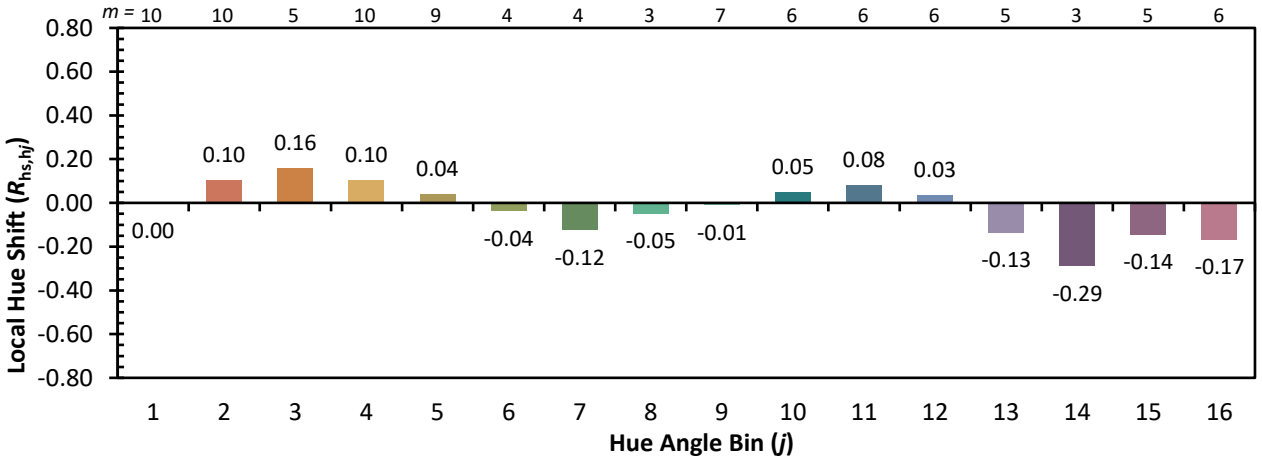


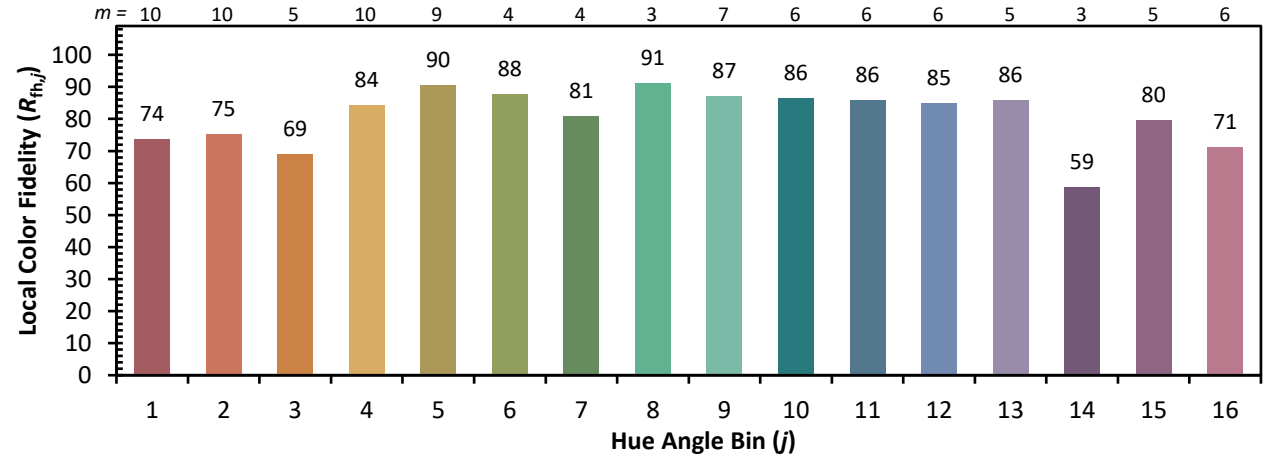
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Color Rendition by Hue-Angle Bin



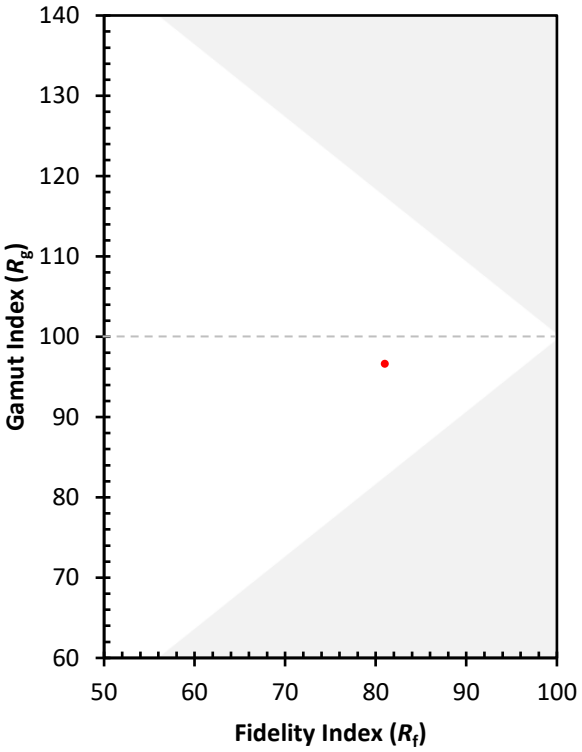


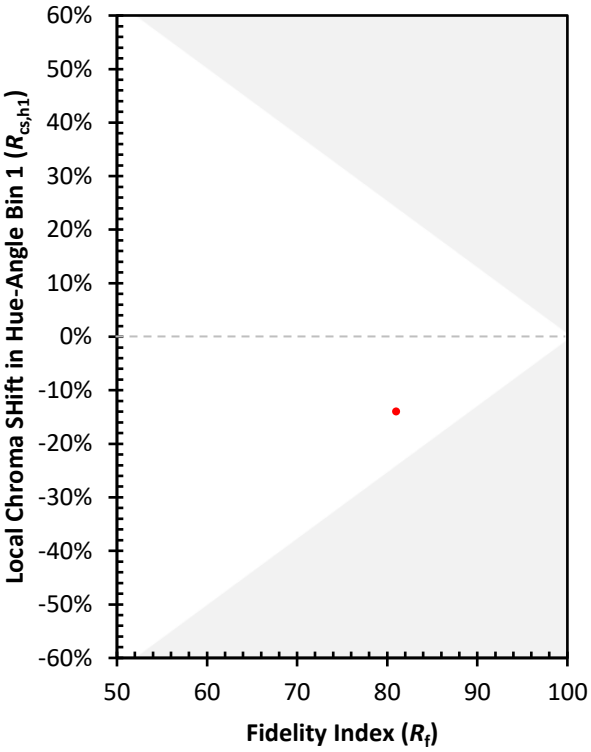


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Measure Comparisons





(END OF REPORT)