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: P1045784

Luminaire Tested: **FFX-CLB-30-722-U-FR-T5-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:	P1045784
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-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2740.2 lumens
Efficiency:	N/A
Efficacy:	89.6 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

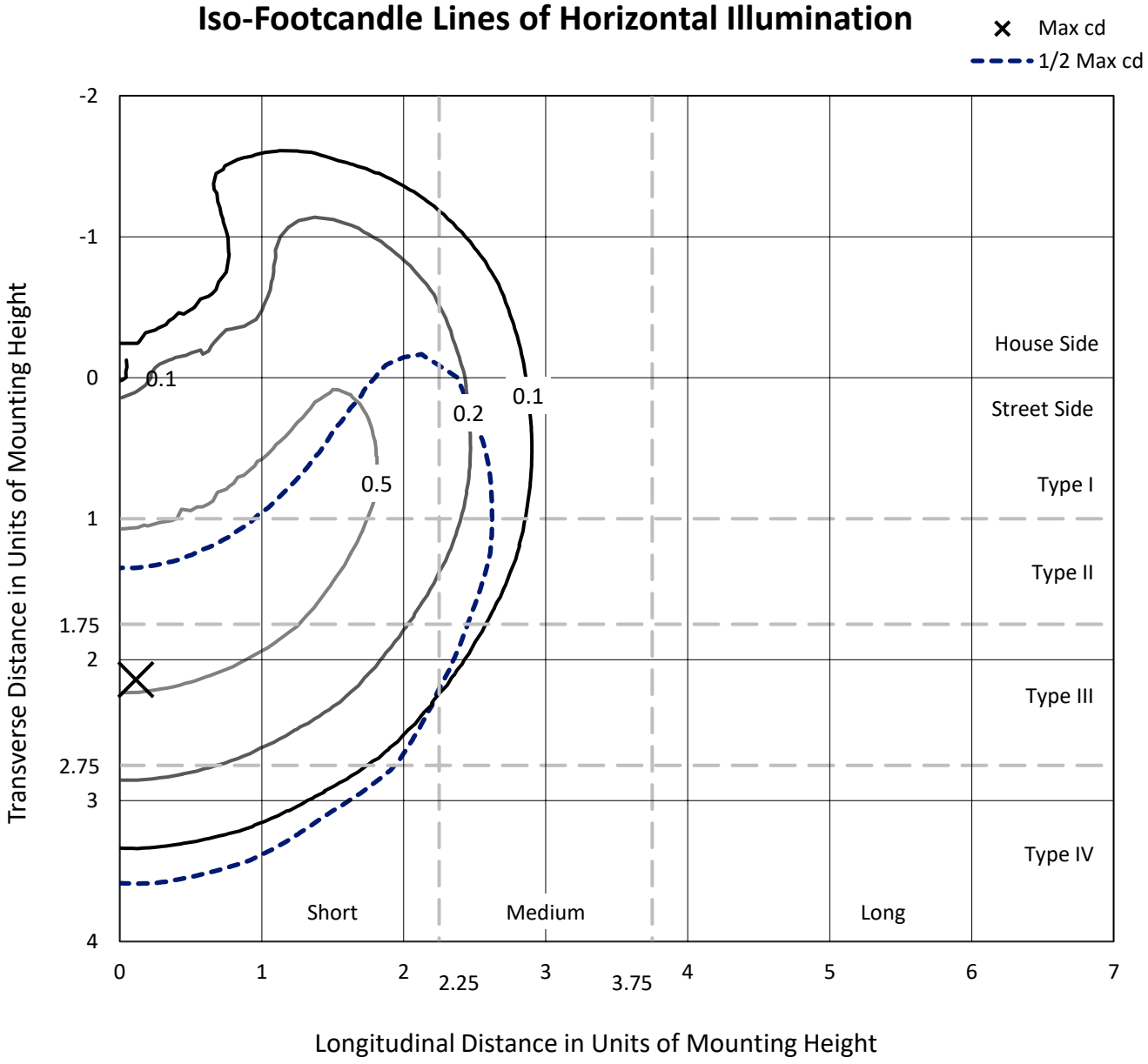


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Iso-Footcandle Lines of Horizontal Illumination



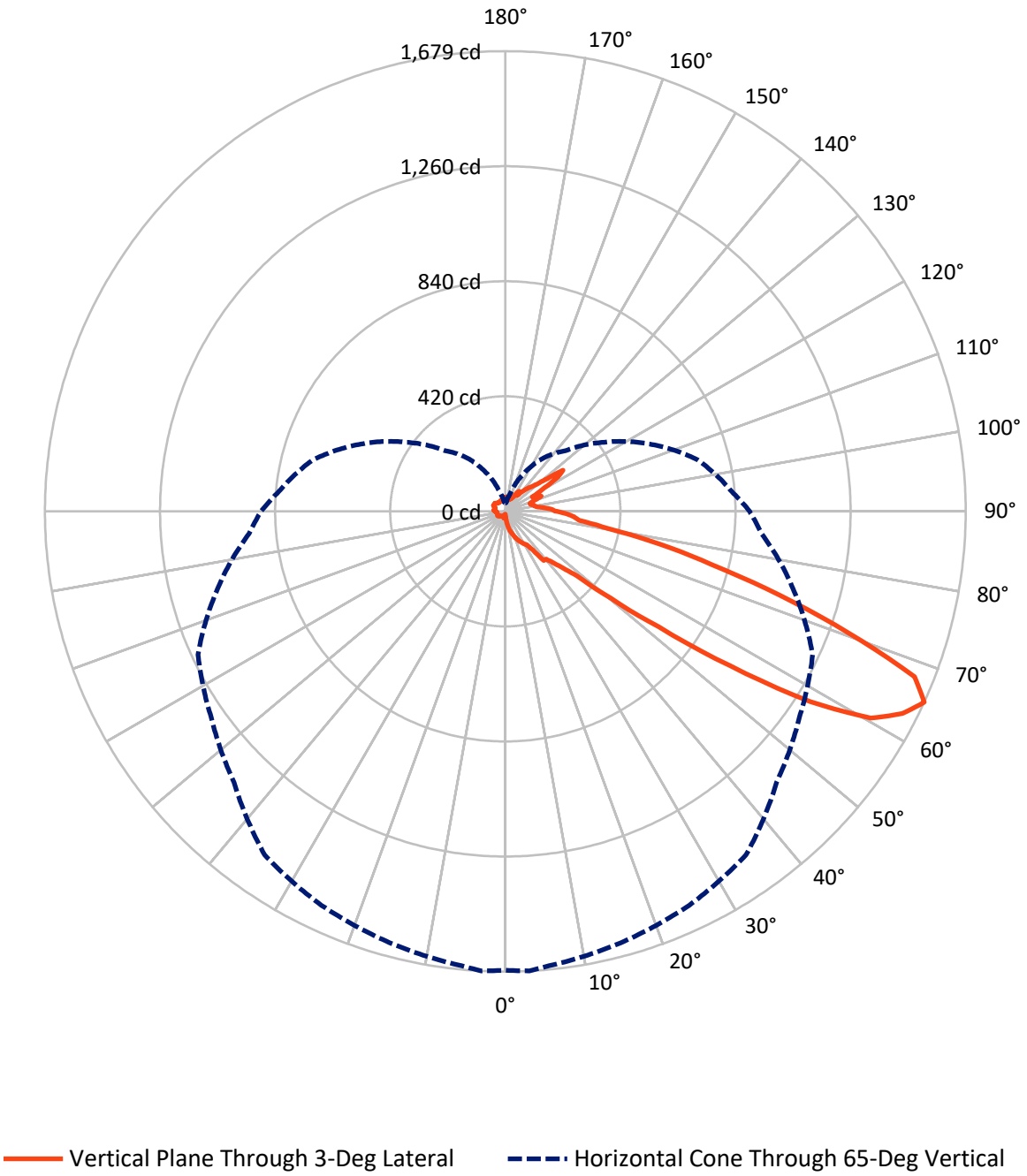
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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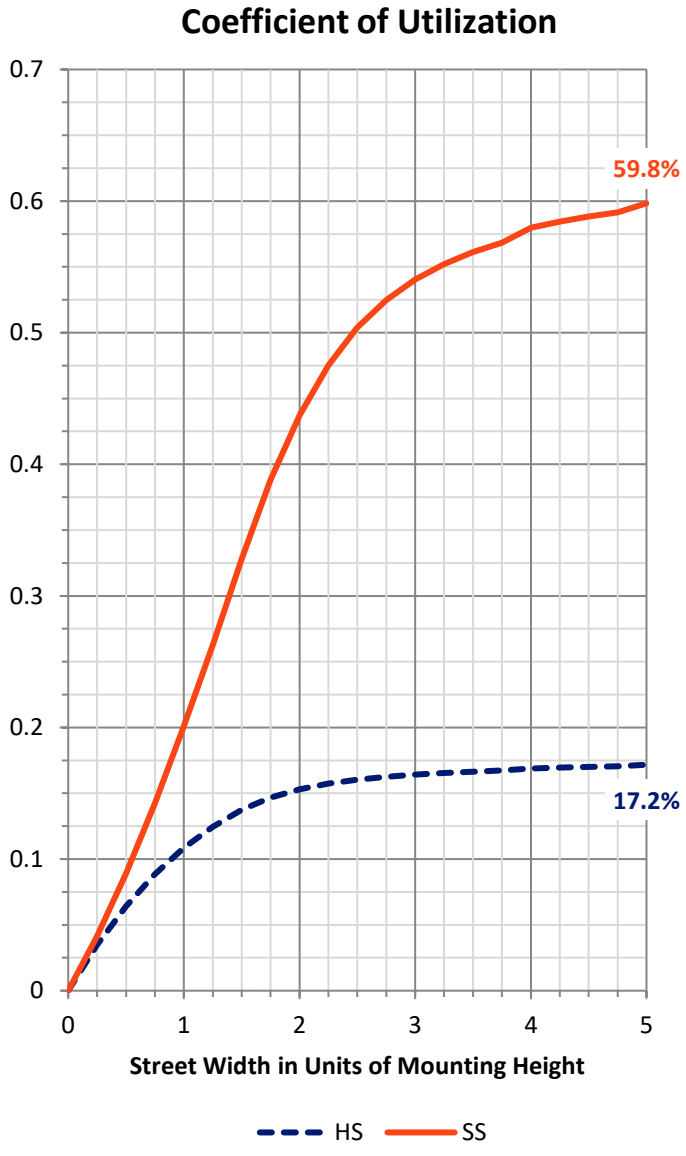
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	488.5	190.2	678.7
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	1707.7	353.9	2061.6
	% Fixture	62.3	12.9	75.2
Total	Lumens	2196.2	544.0	2740.2
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	15.5	0.6
20°-30°	34.2	1.2
30°-40°	68.2	2.5
40°-50°	147.3	5.4
50°-60°	503.6	18.4
60°-70°	818.3	29.9
70°-80°	440.3	16.1
80°-90°	165.9	6.1
90°-100°	104.7	3.8
100°-110°	74.4	2.7
110°-120°	82.1	3.0
120°-130°	125.4	4.6
130°-140°	75.2	2.7
140°-150°	41.6	1.5
150°-160°	23.1	0.8
160°-170°	12.8	0.5
170°-180°	4.7	0.2
0°-90°	2196.2	80.1
0°-180°	2740.2	100.0



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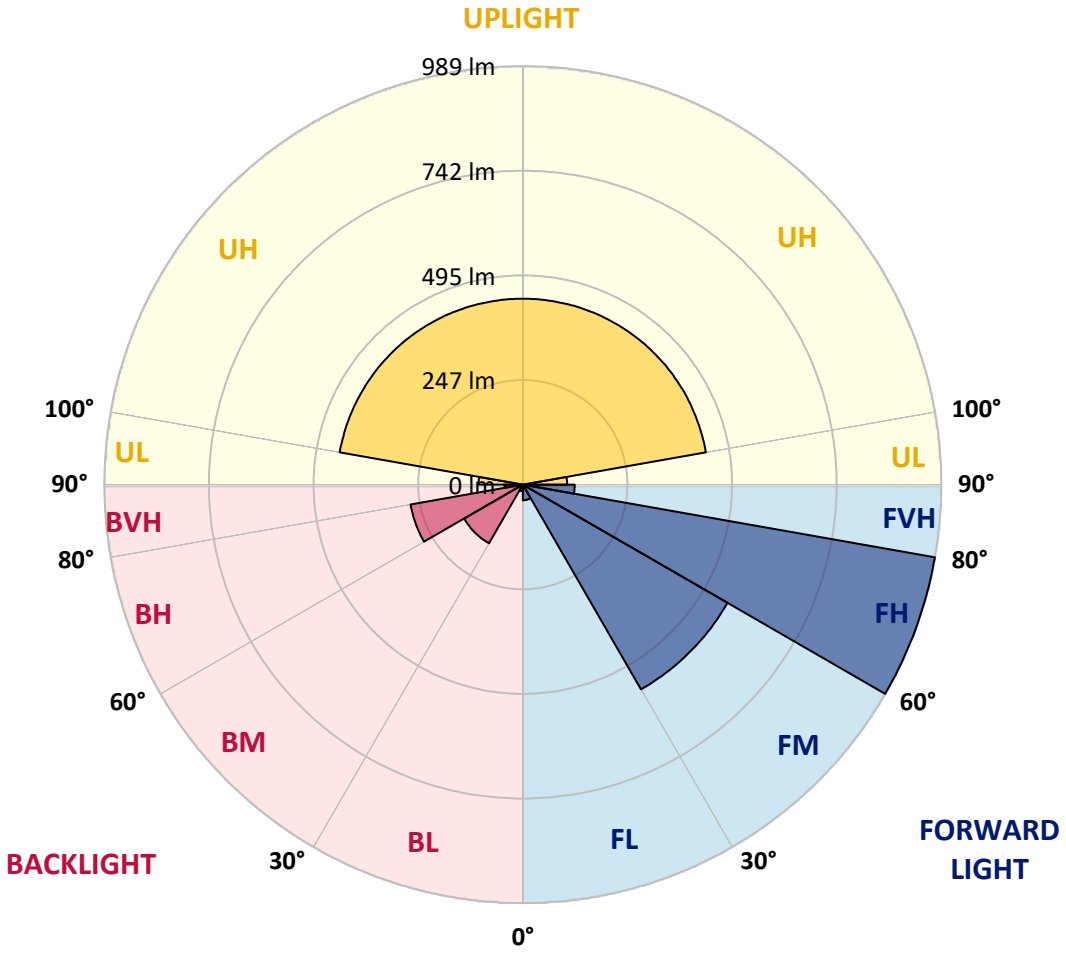
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	37.0	1.3			
FM	(30°-60°)	558.9	20.4			
FH	(60°-80°)	989.2	36.1			G1/1800
FVH	(80°-90°)	122.6	4.5			G2/225
BL	(0°-30°)	15.6	0.6	B0/110		
BM	(30°-60°)	160.2	5.8	B0/220		
BH	(60°-80°)	269.4	9.8	B1/500		G1/500
BVH	(80°-90°)	43.3	1.6			G1/100
UL	(90°-100°)	104.7	3.8		U3/500	
UH	(100°-180°)	439.4	16.0		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°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	21.8	22.1	22.1	22.1	22.7	23.0	22.7	21.8	20.6	20.0	19.3
5°	31.6	32.2	31.9	31.9	31.3	31.3	30.4	29.8	29.2	27.0	24.9
7.5°	43.9	43.3	43.0	42.4	42.7	41.1	39.9	39.9	39.0	36.8	33.5
10°	56.8	56.8	55.9	55.6	54.9	54.3	52.2	51.0	51.0	47.3	43.3
12.5°	70.9	70.6	70.9	70.3	69.4	67.8	65.4	62.6	61.1	57.7	51.9
15°	80.1	79.8	79.8	79.5	78.9	77.4	75.5	72.7	68.8	65.4	59.9
17.5°	89.9	89.3	89.3	87.8	86.6	84.7	83.2	80.4	75.5	69.4	64.2
20°	100.7	100.7	100.7	98.5	96.1	93.6	91.5	89.0	85.3	76.1	68.8
22.5°	110.8	111.1	110.8	108.7	106.5	102.5	99.1	96.1	92.4	83.2	74.3
25°	120.6	121.2	120.9	120.9	118.2	113.0	108.4	103.8	101.3	92.1	79.8
27.5°	129.2	129.5	129.8	131.4	129.8	124.0	116.6	111.1	109.3	99.1	84.4
30°	137.5	138.4	138.4	140.0	139.7	133.2	124.3	118.2	114.5	104.7	89.0
32.5°	145.5	146.1	146.4	150.1	149.8	141.2	133.5	126.8	120.6	113.3	97.0
35°	174.4	173.4	178.0	180.8	178.6	171.0	161.8	149.2	140.6	132.0	114.5
37.5°	228.1	227.5	227.5	221.3	212.7	203.8	201.4	188.2	177.7	166.7	142.7
40°	229.6	229.6	230.5	237.3	241.6	230.2	219.5	206.6	204.4	193.1	163.9
42.5°	252.0	254.5	256.9	261.5	269.2	261.8	249.6	229.0	219.2	207.5	182.6
45°	290.1	293.8	292.5	294.4	292.5	286.1	285.2	273.8	259.1	236.7	203.2
47.5°	353.0	350.9	349.6	357.0	369.0	357.0	354.2	336.1	307.9	279.3	241.3
50°	507.7	498.5	508.0	506.5	504.3	493.3	485.0	466.9	420.8	374.5	319.5
52.5°	714.9	699.9	708.5	714.3	708.1	692.5	667.6	632.3	570.3	510.5	438.0
55°	1016.0	995.2	997.9	1005.3	1009.6	974.0	938.4	860.4	767.4	675.0	596.4
57.5°	1348.5	1311.0	1335.6	1294.4	1277.6	1214.0	1183.9	1105.0	995.8	872.4	745.6
60°	1535.7	1531.7	1527.1	1495.2	1477.4	1406.2	1335.6	1261.6	1163.7	1017.9	869.6
62.5°	1617.0	1625.6	1618.9	1602.3	1586.4	1523.7	1401.0	1313.2	1233.7	1083.9	935.9
65°	1674.5	1679.4	1668.0	1629.6	1586.4	1530.5	1399.4	1309.8	1237.0	1086.0	938.7
67.5°	1608.8	1609.7	1595.9	1546.1	1458.4	1409.2	1282.2	1203.9	1132.7	1003.7	865.9
70°	1325.1	1327.9	1319.3	1275.1	1201.4	1158.8	1036.3	955.9	902.1	813.1	711.5
72.5°	1032.9	1044.9	1032.6	1015.1	945.1	913.5	831.2	766.2	716.7	632.9	551.0
75°	776.6	779.4	779.7	760.0	723.2	716.1	659.7	616.7	573.7	504.9	444.8
77.5°	563.3	575.5	571.2	567.9	519.7	522.4	500.0	474.6	447.5	401.8	358.8
80°	373.9	380.3	372.6	374.5	368.0	366.5	345.6	328.4	311.9	290.7	273.8
82.5°	272.6	271.3	270.7	267.4	262.4	263.4	252.9	231.8	211.8	207.5	191.8
85°	252.0	251.1	250.2	244.0	233.6	227.1	221.3	212.7	200.4	181.1	160.8
87.5°	220.4	220.7	218.6	212.1	205.4	203.5	198.9	193.4	187.2	172.8	155.0
90°	181.4	180.5	180.8	177.1	178.3	177.7	170.7	163.9	161.5	149.2	138.7
92.5°	167.6	166.7	167.0	164.2	159.9	159.0	151.3	143.0	139.4	131.7	123.7
95°	140.0	140.0	138.7	137.5	135.4	132.3	128.3	122.8	120.0	113.9	105.9
97.5°	117.6	116.3	117.3	115.1	113.3	112.0	109.0	103.4	100.7	96.1	89.9
100°	109.3	109.3	109.0	108.0	103.4	101.0	97.6	92.4	90.2	86.3	81.7
102.5°	104.7	104.4	104.1	103.1	98.8	94.5	90.2	87.2	84.7	81.3	76.4
105°	95.8	95.8	96.4	96.1	93.0	90.2	85.6	82.9	80.4	77.0	72.4
107.5°	94.8	94.5	94.5	90.9	86.9	85.3	82.0	79.5	77.4	74.0	68.8
110°	108.7	109.3	110.2	104.1	94.5	90.6	85.6	82.9	80.4	76.1	70.6

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	142.4	*142.4*	141.8	138.4	121.9	110.8	108.4	101.3	97.3	90.9	83.2
115°	128.0	*128.3*	128.0	128.9	127.7	113.9	116.3	104.7	111.4	96.4	91.2
117.5°	111.7	*111.4*	110.2	110.5	111.7	120.6	101.3	98.5	101.3	87.8	83.2
120°	155.9	*153.2*	155.9	144.6	142.7	144.3	133.2	131.1	119.4	103.1	90.9
122.5°	229.6	*225.3*	231.4	227.5	230.5	220.4	209.7	200.7	187.9	160.5	136.0
125°	259.4	*258.5*	256.9	251.4	246.5	242.2	244.0	247.4	240.3	218.2	189.7
127.5°	190.9	*193.4*	192.5	203.5	214.3	211.8	205.4	208.4	212.1	210.9	194.0
130°	152.3	*154.4*	155.6	166.4	175.6	175.6	165.1	162.4	165.4	171.9	165.4
132.5°	133.5	*134.1*	134.8	138.4	146.1	149.8	143.3	139.1	140.3	143.7	138.1
135°	120.3	*120.0*	119.1	116.6	117.3	120.9	123.7	123.1	122.2	122.2	119.1
137.5°	104.4	*104.1*	104.1	100.4	98.8	101.9	105.9	109.6	107.1	103.8	100.1
140°	86.9	*86.6*	86.9	89.0	89.6	89.9	92.1	92.1	92.1	91.8	90.2
142.5°	72.1	*72.4*	73.1	78.6	81.3	81.3	78.6	76.1	75.8	77.7	78.0
145°	88.7	*88.7*	89.0	88.7	86.9	85.0	83.2	83.2	81.3	77.0	74.9
147.5°	79.2	*80.4*	79.5	80.4	81.0	81.3	81.0	82.0	82.3	79.8	76.4
150°	62.3	*62.0*	61.4	62.3	63.8	65.7	66.3	66.9	67.2	67.2	67.2
152.5°	54.0	*54.3*	54.0	54.9	55.9	56.2	57.1	57.1	57.4	57.1	56.5
155°	52.5	*52.5*	52.5	52.5	52.8	53.4	54.6	55.3	54.6	53.7	52.2
157.5°	48.8	*48.8*	48.8	49.1	49.7	50.3	51.3	51.9	51.9	51.3	50.0
160°	46.7	*46.7*	46.7	46.7	47.3	47.9	48.5	49.1	49.1	48.8	47.9
162.5°	44.2	*44.2*	44.2	44.5	45.1	45.7	46.4	47.0	46.7	46.7	46.0
165°	43.9	*43.9*	43.9	44.2	44.8	45.7	46.0	46.0	46.4	46.4	46.4
167.5°	45.1	*45.1*	45.4	45.4	46.0	46.4	47.0	47.3	47.6	47.3	47.3
170°	47.0	*47.0*	47.0	47.3	47.6	47.6	47.9	47.9	48.2	48.2	48.2
172.5°	49.4	*49.4*	49.4	49.4	49.1	49.1	49.1	49.1	49.4	49.1	49.4
175°	52.2	*52.2*	52.2	51.9	51.6	51.6	51.3	51.3	51.0	50.6	50.6
177.5°	52.5	*52.5*	52.5	52.5	52.2	51.9	51.9	51.6	51.3	51.3	51.3
180°	51.3	*51.3*	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	18.7	18.1	16.6	15.3	14.4	13.2	12.3	11.4	10.7	10.4	10.1
5°	24.6	23.3	21.5	19.6	18.1	16.0	14.7	12.6	11.1	10.4	10.1
7.5°	32.2	31.3	30.4	30.1	29.5	26.7	22.7	19.6	19.0	18.4	19.0
10°	41.1	39.3	36.5	38.1	38.1	32.8	27.3	24.2	23.9	25.2	25.5
12.5°	49.4	47.0	43.6	43.3	39.9	32.8	27.0	23.9	23.6	23.9	24.2
15°	57.1	54.3	50.6	47.6	42.4	35.0	28.2	24.2	23.3	24.2	24.2
17.5°	61.4	58.6	53.4	47.6	41.4	34.7	27.9	23.6	21.5	20.3	20.3
20°	66.6	64.5	57.4	50.0	41.7	34.4	27.6	23.0	20.6	19.3	19.0
22.5°	71.2	68.8	61.1	53.1	43.6	34.4	26.7	22.7	20.6	19.3	19.0
25°	76.7	73.1	65.4	56.5	45.1	34.4	26.7	23.0	20.9	19.6	19.3
27.5°	80.4	76.1	68.8	58.9	47.0	35.0	27.6	23.3	20.9	19.6	19.6
30°	84.1	80.1	71.5	62.3	49.1	36.5	29.2	24.6	21.8	20.3	20.3
32.5°	91.5	86.3	75.8	65.1	51.0	37.8	30.7	25.8	22.7	21.2	21.2
35°	108.0	100.7	88.1	73.1	53.4	39.0	32.2	27.3	23.3	21.5	21.5
37.5°	133.2	124.0	108.7	88.1	59.5	40.8	33.5	27.9	23.9	22.4	22.1
40°	149.8	138.4	120.0	100.1	68.5	43.9	35.0	28.9	24.6	22.7	22.4
42.5°	169.7	155.9	131.4	103.8	73.1	50.3	38.1	30.4	25.5	23.0	22.7
45°	187.9	176.2	153.2	121.2	86.3	59.9	43.6	33.2	27.0	23.9	23.6
47.5°	224.7	206.6	175.9	143.0	102.8	74.3	53.1	37.4	29.5	25.2	24.6
50°	296.5	277.8	240.7	189.7	132.9	94.5	68.5	45.4	32.5	26.4	25.5
52.5°	402.7	368.3	326.9	258.2	188.5	136.6	97.0	64.2	38.7	27.6	26.1
55°	544.8	525.2	451.8	364.4	268.6	204.4	149.2	99.8	57.7	29.2	26.4
57.5°	707.8	668.9	601.9	493.0	359.1	260.3	201.7	148.6	85.0	34.1	27.9
60°	812.8	772.3	695.6	585.4	437.1	310.3	229.9	165.4	96.4	35.0	29.2
62.5°	880.7	823.9	726.6	597.6	459.8	330.9	242.8	157.2	82.3	34.1	30.1
65°	*891.1*	*829.4*	*726.6*	*580.8*	*439.3*	*314.0*	*234.8*	*145.2*	*64.8*	*32.5*	*31.3*
67.5°	829.4	762.5	677.1	532.6	394.1	269.2	201.7	118.5	49.1	31.6	31.0
70°	671.6	629.6	551.9	434.0	314.6	220.4	160.5	90.9	39.9	30.7	30.4
72.5°	513.2	482.8	428.5	338.3	242.5	170.1	122.5	71.5	35.9	30.1	29.8
75°	408.6	380.9	336.7	260.6	185.1	131.1	91.5	54.9	32.8	30.1	29.5
77.5°	337.0	312.8	272.9	206.6	135.1	97.9	69.4	44.5	32.2	30.1	29.8
80°	259.4	241.9	212.1	150.1	96.7	73.4	55.3	39.6	32.2	30.7	30.4
82.5°	183.9	177.1	154.7	117.0	81.3	63.8	51.0	39.0	32.8	31.3	31.0
85°	152.9	144.9	128.9	101.9	75.8	61.7	50.3	39.9	34.4	33.2	32.8
87.5°	147.3	142.1	126.5	98.5	72.7	58.9	48.2	39.0	34.4	33.8	34.1
90°	133.2	127.4	115.4	91.8	69.7	58.6	49.1	40.5	35.6	35.0	34.7
92.5°	120.9	117.6	107.1	88.7	71.8	60.8	51.9	44.2	40.2	39.0	39.0
95°	103.4	100.1	94.2	81.3	68.5	59.5	51.9	45.1	41.7	41.1	40.8
97.5°	88.1	85.9	81.0	70.9	60.8	53.4	46.7	41.4	38.7	37.8	37.8
100°	80.4	78.6	74.6	67.8	60.2	54.0	48.5	43.9	41.4	40.8	40.8
102.5°	74.9	73.4	69.7	64.8	58.0	53.1	48.5	44.5	41.7	41.1	41.4
105°	70.3	68.8	65.1	60.2	54.6	49.4	46.0	43.0	39.9	39.0	39.0
107.5°	66.9	65.4	62.3	57.4	52.8	48.2	44.5	42.1	39.6	39.0	39.0
110°	68.5	66.3	61.7	56.5	52.5	48.5	45.4	43.0	41.1	40.2	40.2

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

Scaled Data Report

REPORT NUMBER: P1045784
CATALOG NUMBER: FFX-CLB-30-722-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	80.1	76.7	69.1	61.7	56.5	51.9	48.5	45.1	43.6	42.4	42.4
115°	87.8	84.4	76.7	67.8	60.2	53.7	49.1	46.4	44.5	45.7	45.1
117.5°	80.1	77.7	71.8	65.4	59.2	53.7	49.7	47.9	46.7	48.2	48.8
120°	88.1	83.5	78.9	71.5	60.2	52.5	49.7	49.1	49.1	47.9	47.9
122.5°	125.9	118.2	101.0	88.4	72.7	64.2	58.9	54.0	49.1	47.3	47.0
125°	176.2	161.8	140.0	117.9	96.4	78.3	63.2	54.0	49.4	46.7	46.0
127.5°	185.4	172.8	152.9	126.2	97.0	76.4	62.9	55.9	50.6	47.6	47.3
130°	156.5	150.4	132.6	109.6	87.2	71.2	62.3	55.9	51.0	48.2	47.6
132.5°	132.9	128.6	112.0	93.6	77.7	66.0	58.0	51.0	46.4	43.9	43.3
135°	114.2	111.4	97.0	83.8	71.8	62.3	54.0	47.3	43.6	42.1	41.7
137.5°	97.9	95.2	85.3	76.1	66.9	58.6	51.9	46.0	42.7	41.7	41.4
140°	87.8	85.3	79.2	69.4	60.5	51.9	47.0	43.3	41.4	40.8	40.5
142.5°	76.4	73.7	66.9	59.9	53.7	47.0	43.6	42.1	41.1	40.5	40.2
145°	72.4	70.6	62.9	56.5	50.6	47.3	45.4	43.3	41.4	40.2	39.9
147.5°	73.4	71.2	64.5	58.3	53.1	49.4	46.4	43.3	40.8	39.6	39.3
150°	65.7	65.1	61.1	56.2	51.3	47.3	44.2	41.7	40.2	39.9	39.9
152.5°	54.9	54.6	52.8	50.0	46.7	43.6	41.4	40.2	40.2	40.8	41.1
155°	51.6	50.6	49.4	47.6	44.8	42.7	41.1	40.5	40.8	41.4	41.4
157.5°	49.7	48.8	47.6	46.0	44.5	42.7	41.4	41.1	41.7	42.4	42.4
160°	47.3	46.7	45.7	44.2	43.0	42.1	41.4	41.4	41.7	42.1	42.1
162.5°	45.7	45.1	44.2	43.3	42.7	42.4	42.1	41.7	42.1	42.4	42.4
165°	45.7	45.4	44.2	43.3	43.0	43.0	43.0	43.0	43.0	42.7	42.7
167.5°	47.0	46.7	45.7	45.1	44.8	45.1	45.1	44.8	44.5	43.9	43.9
170°	48.2	47.9	47.6	47.3	47.0	47.3	47.3	47.3	47.0	47.0	46.7
172.5°	49.4	49.1	48.8	48.5	48.5	48.5	48.8	49.1	49.1	49.1	49.1
175°	50.6	50.6	50.0	49.7	49.7	49.7	50.0	50.0	50.3	50.3	50.3
177.5°	51.3	51.3	51.3	51.3	51.6	51.3	51.3	51.0	51.0	51.0	51.0
180°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3

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

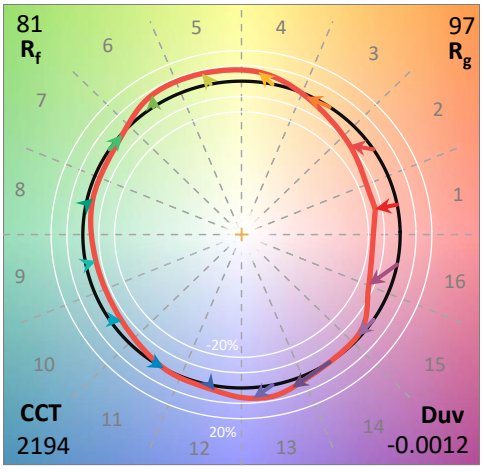
Test Information

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

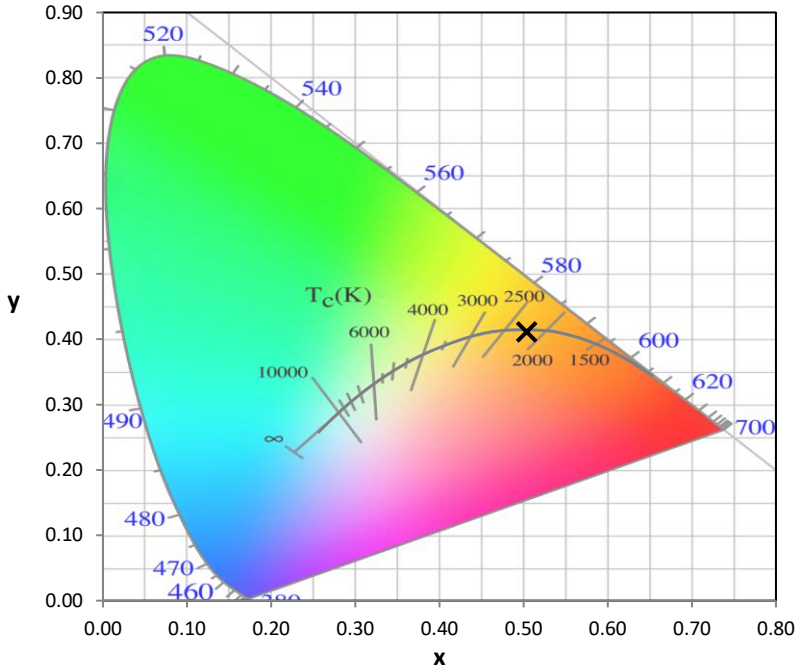
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

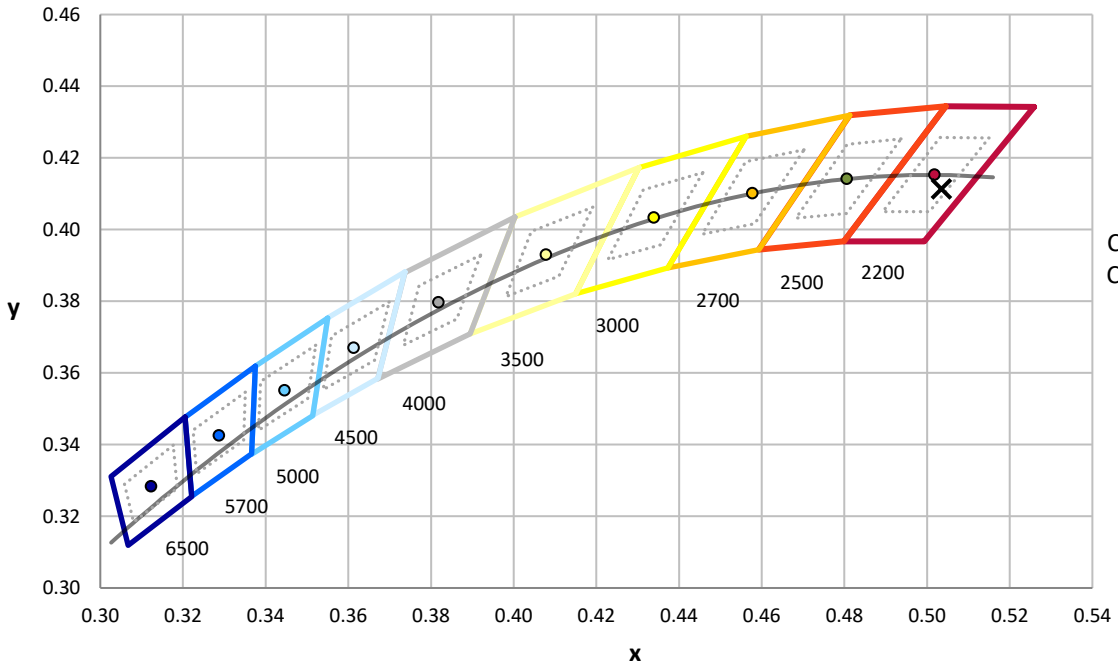
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

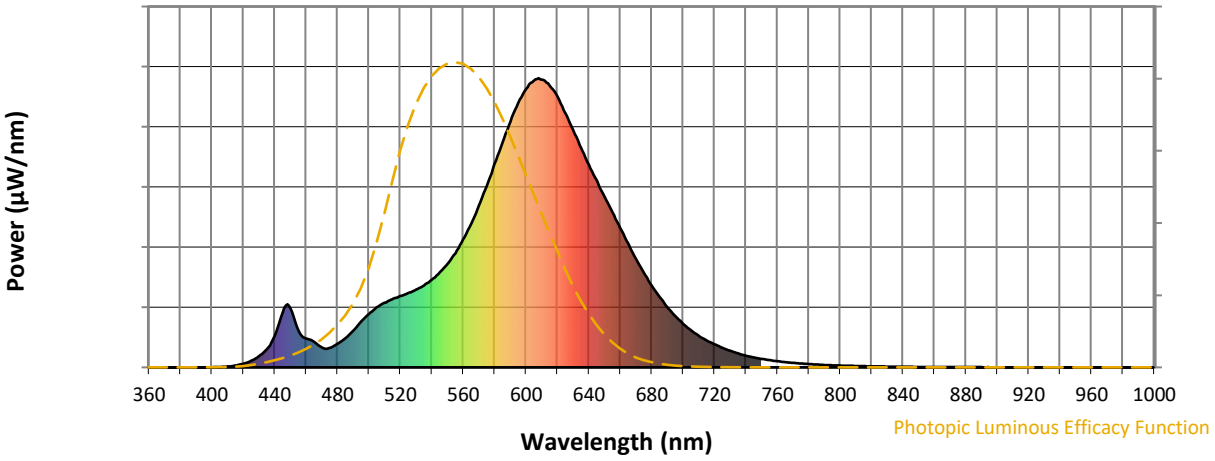


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

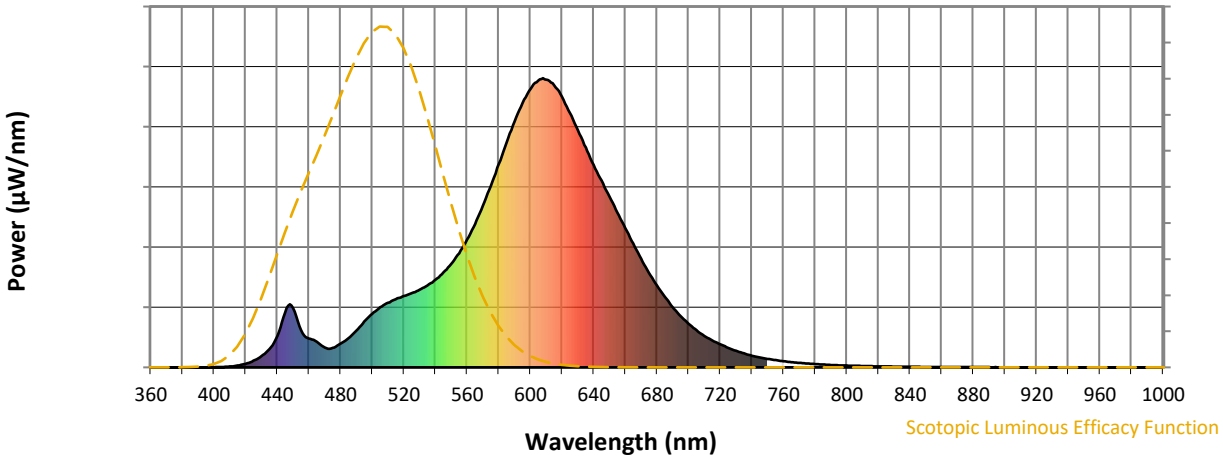


Photopic Lumens: NR

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

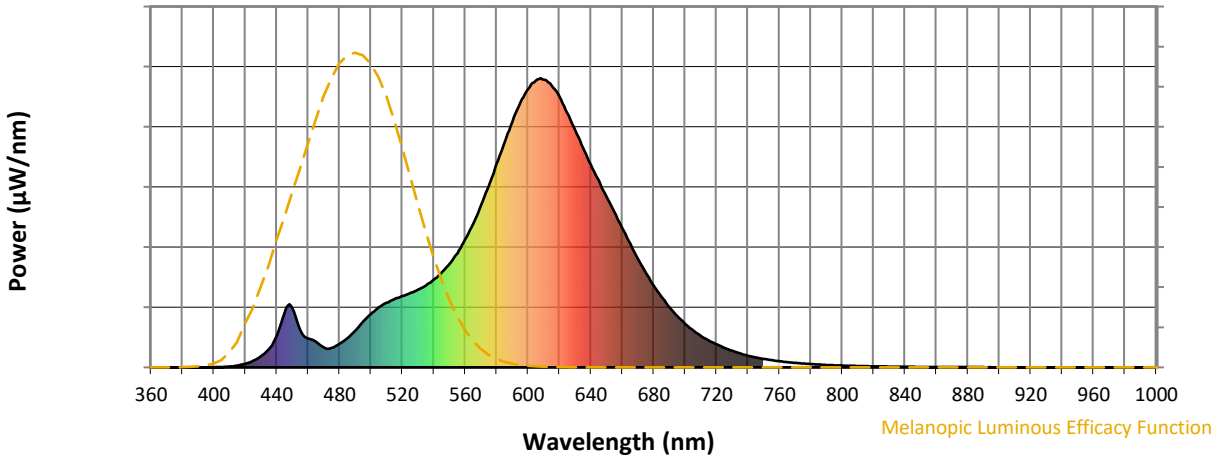


Scotopic Lumens: NR **S/P: 0.96**

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			

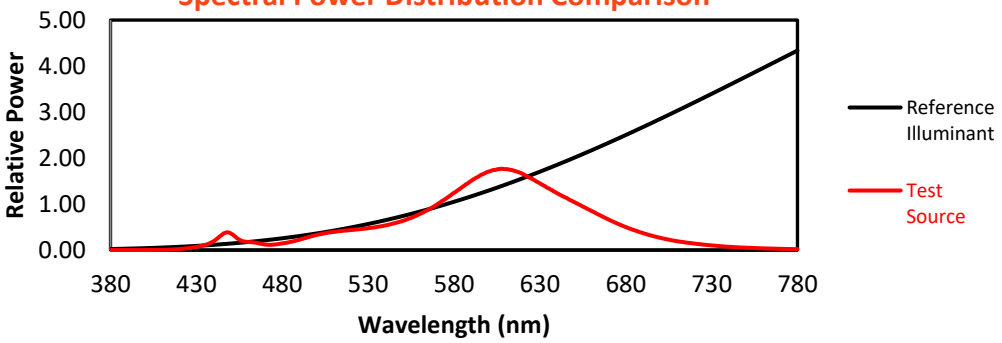
REPORT NUMBER: SP1-2501-332-7

TM-30-18

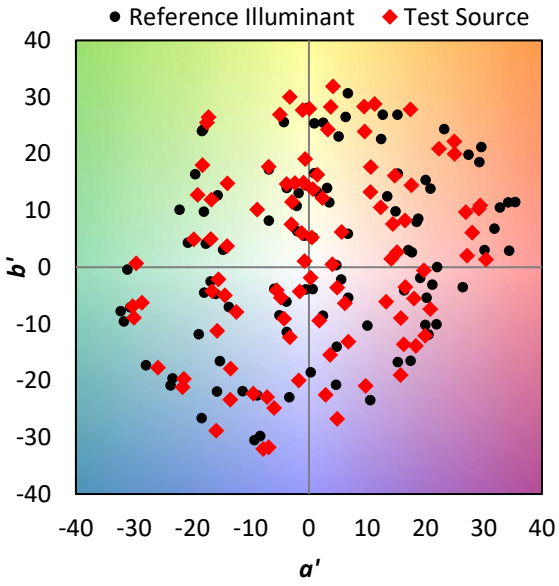
Summary

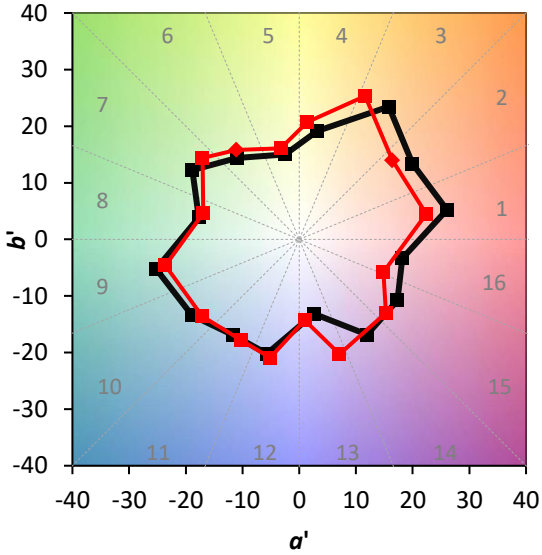
R_f = 81
R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

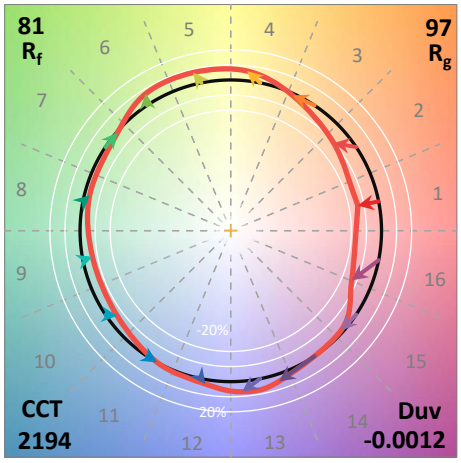
Spectral Power Distribution Comparison

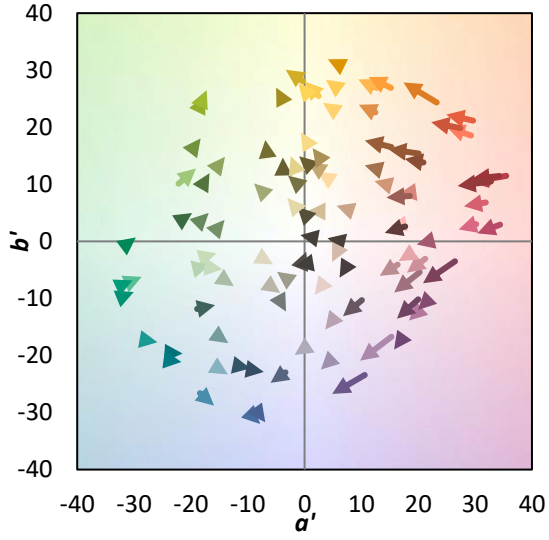


Color Vector Graphics







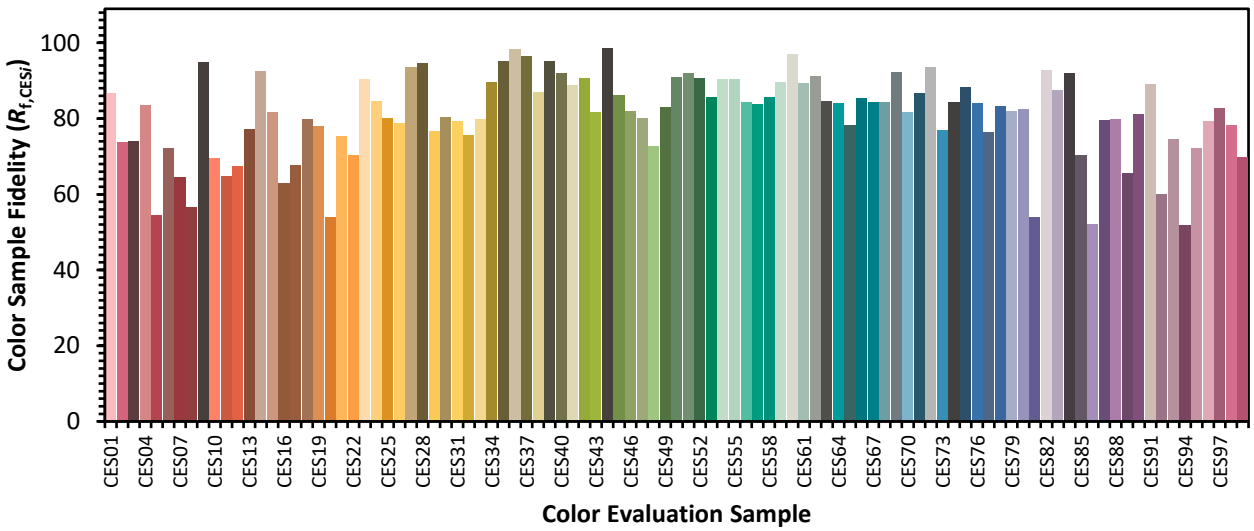


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

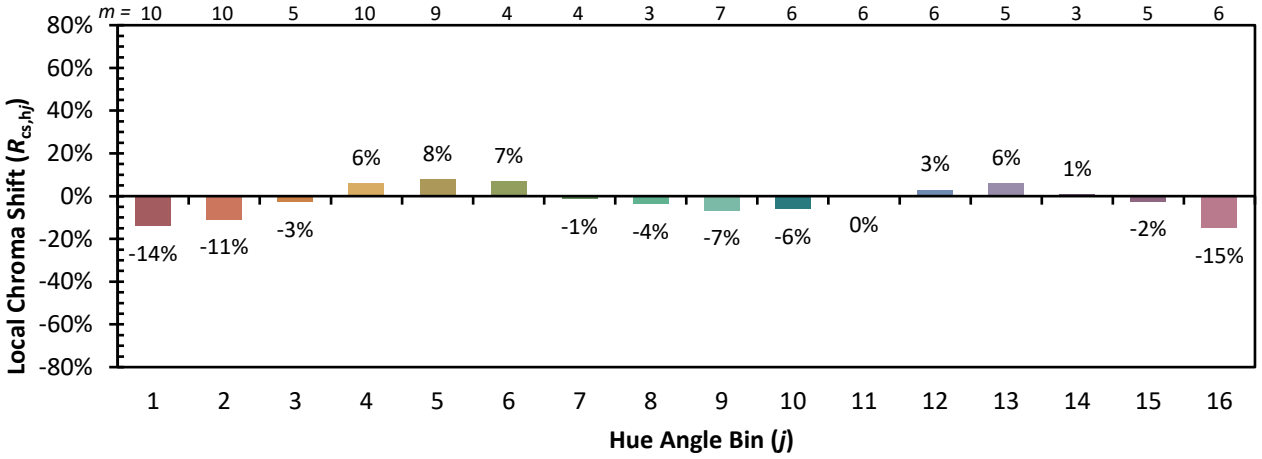
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57 = 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	

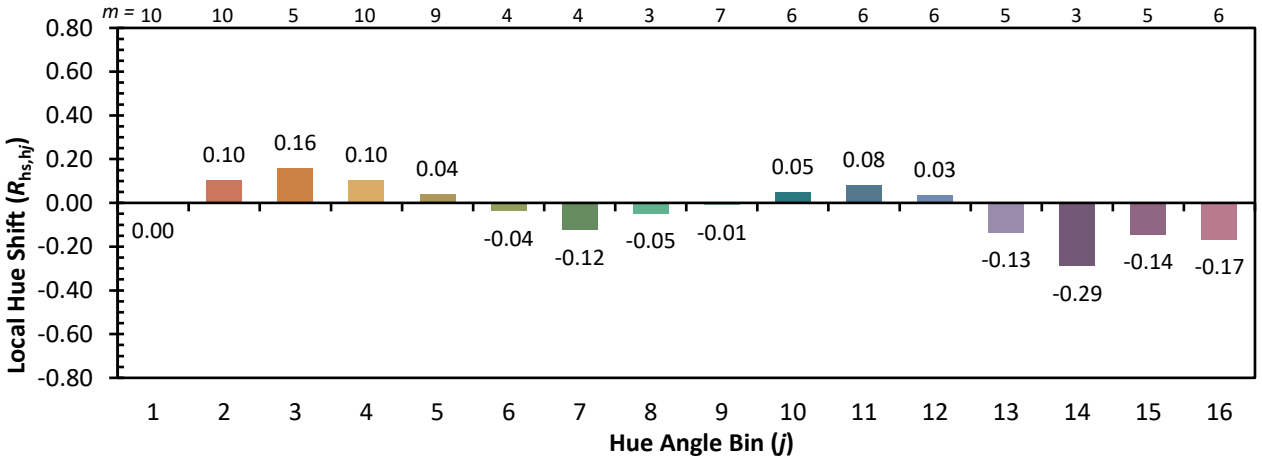


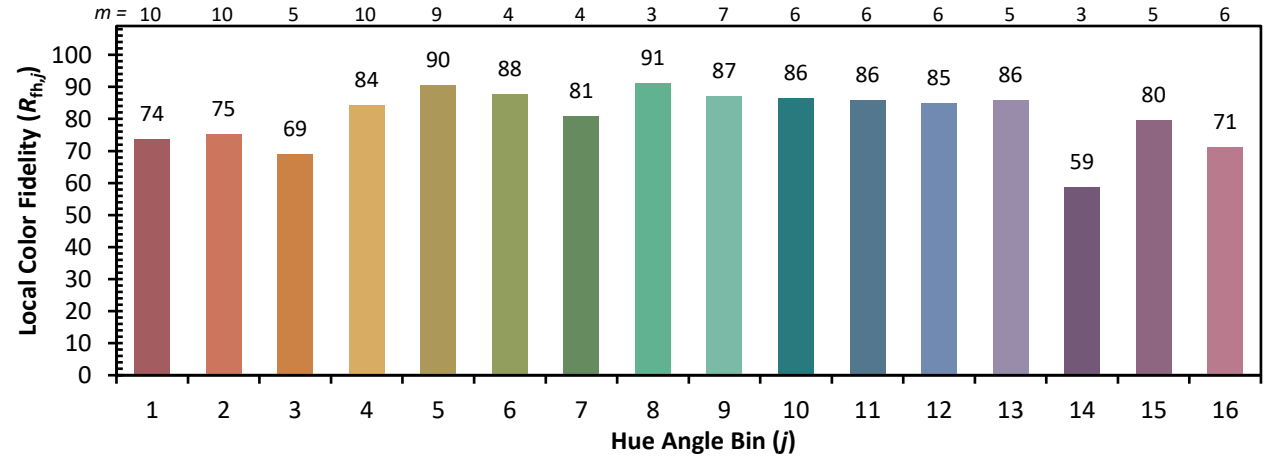
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Color Rendition by Hue-Angle Bin



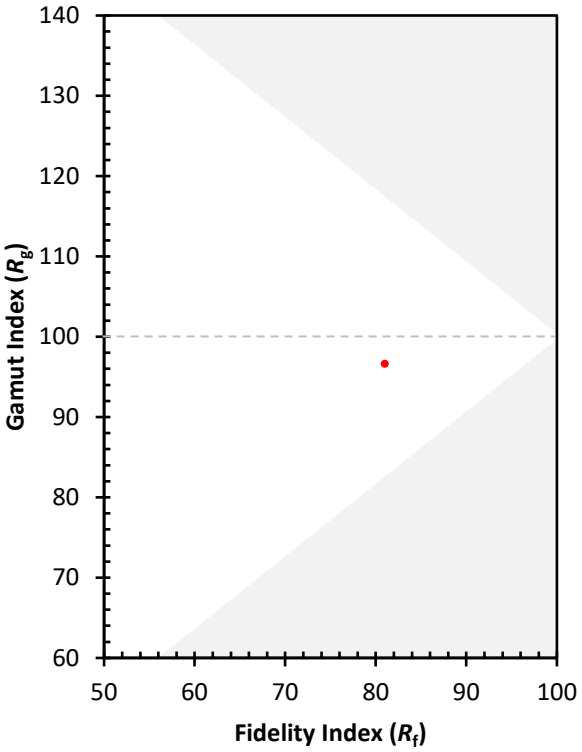


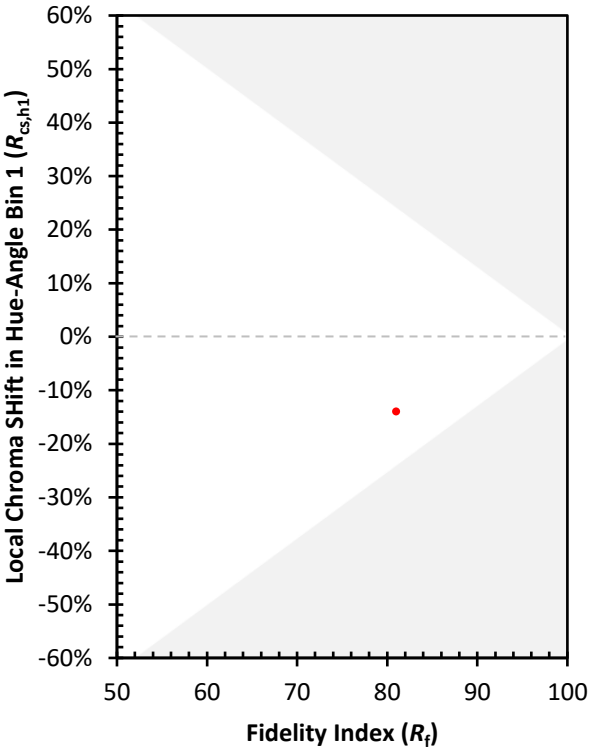


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Measure Comparisons





(END OF REPORT)