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: P1045740

Luminaire Tested: **FFX-CLB-20-722-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:	P1045740
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-722-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:	1773 lumens
Efficiency:	N/A
Efficacy:	89.5 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U3 - G1

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

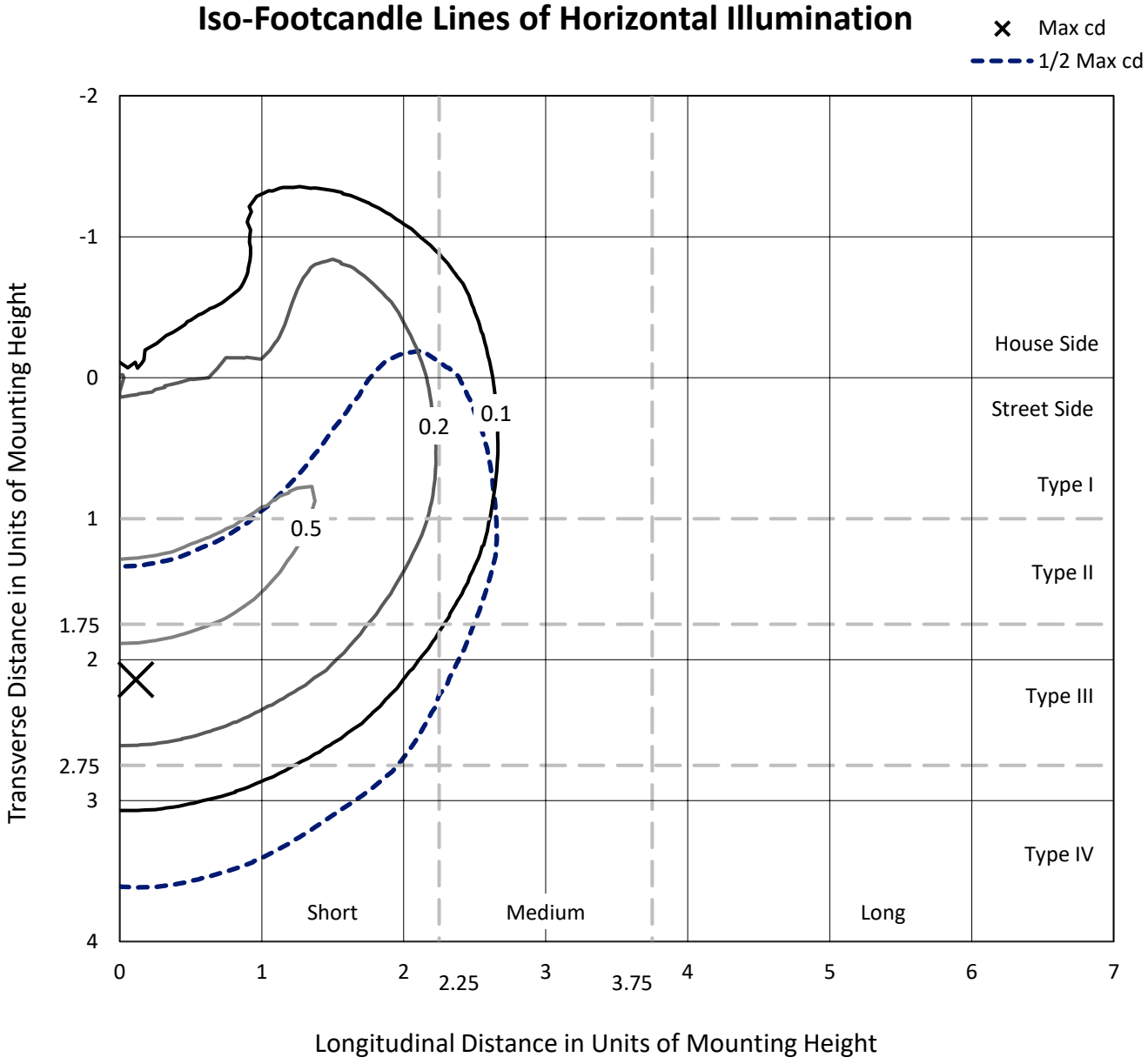


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Iso-Footcandle Lines of Horizontal Illumination



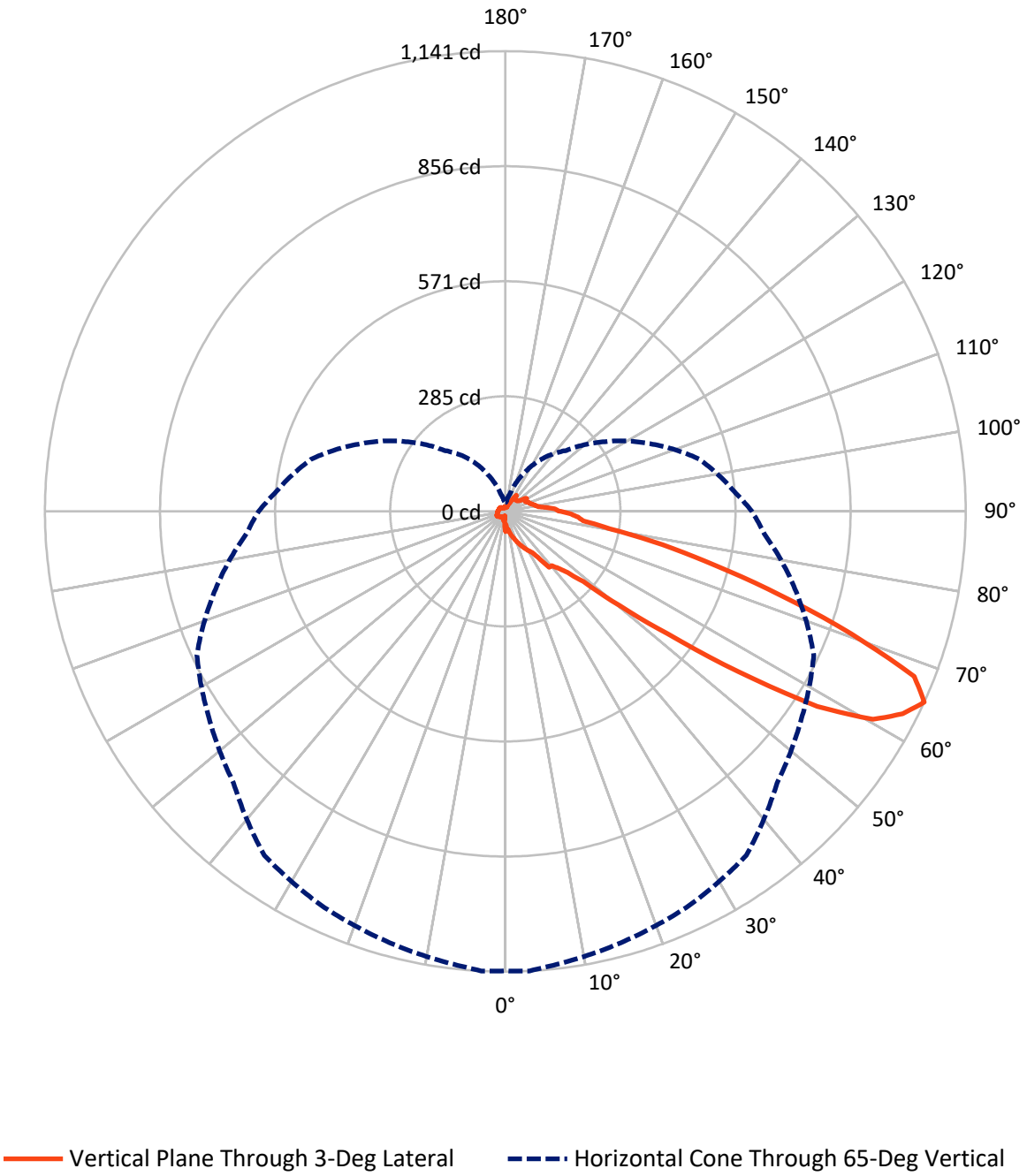
Based on 15 foot mounting height. Maximum calculated value = 0.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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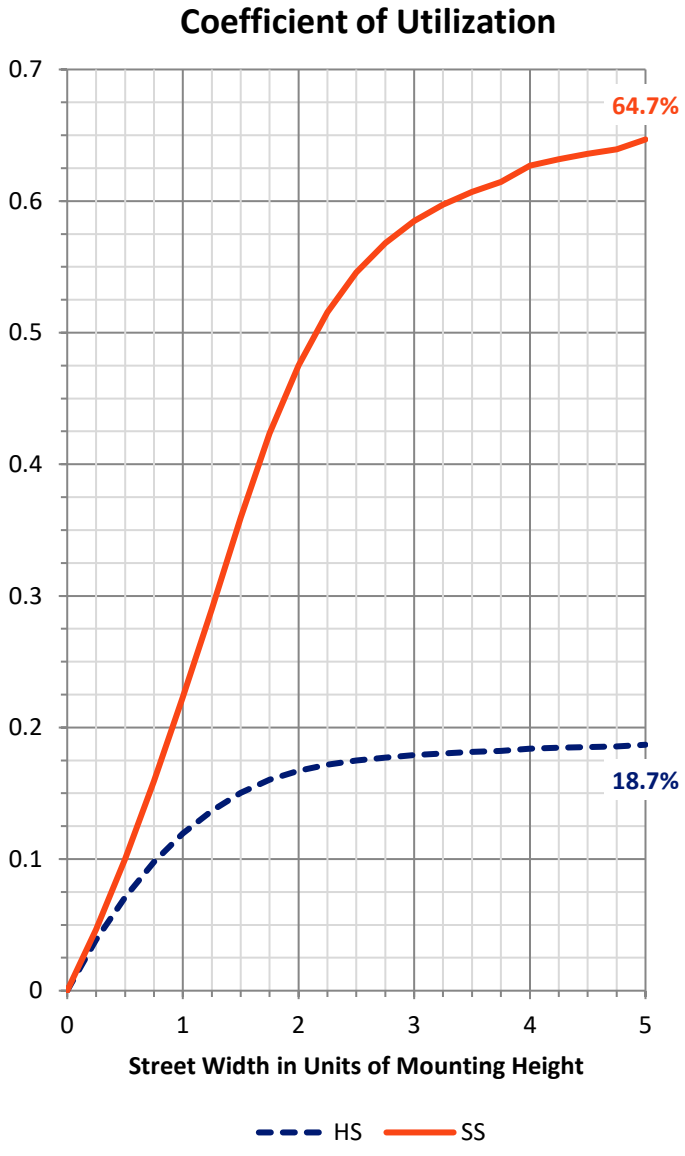
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.0	74.6	417.6
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	1196.1	159.3	1355.4
	% Fixture	67.5	9.0	76.4
Total	Lumens	1539.2	233.8	1773.0
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.2
10°-20°	12.1	0.7
20°-30°	26.9	1.5
30°-40°	54.5	3.1
40°-50°	109.4	6.2
50°-60°	351.2	19.8
60°-70°	560.1	31.6
70°-80°	304.7	17.2
80°-90°	117.1	6.6
90°-100°	69.8	3.9
100°-110°	46.3	2.6
110°-120°	36.9	2.1
120°-130°	30.8	1.7
130°-140°	21.2	1.2
140°-150°	17.1	1.0
150°-160°	7.6	0.4
160°-170°	3.1	0.2
170°-180°	1.0	0.1
0°-90°	1539.2	86.8
0°-180°	1773.0	100.0



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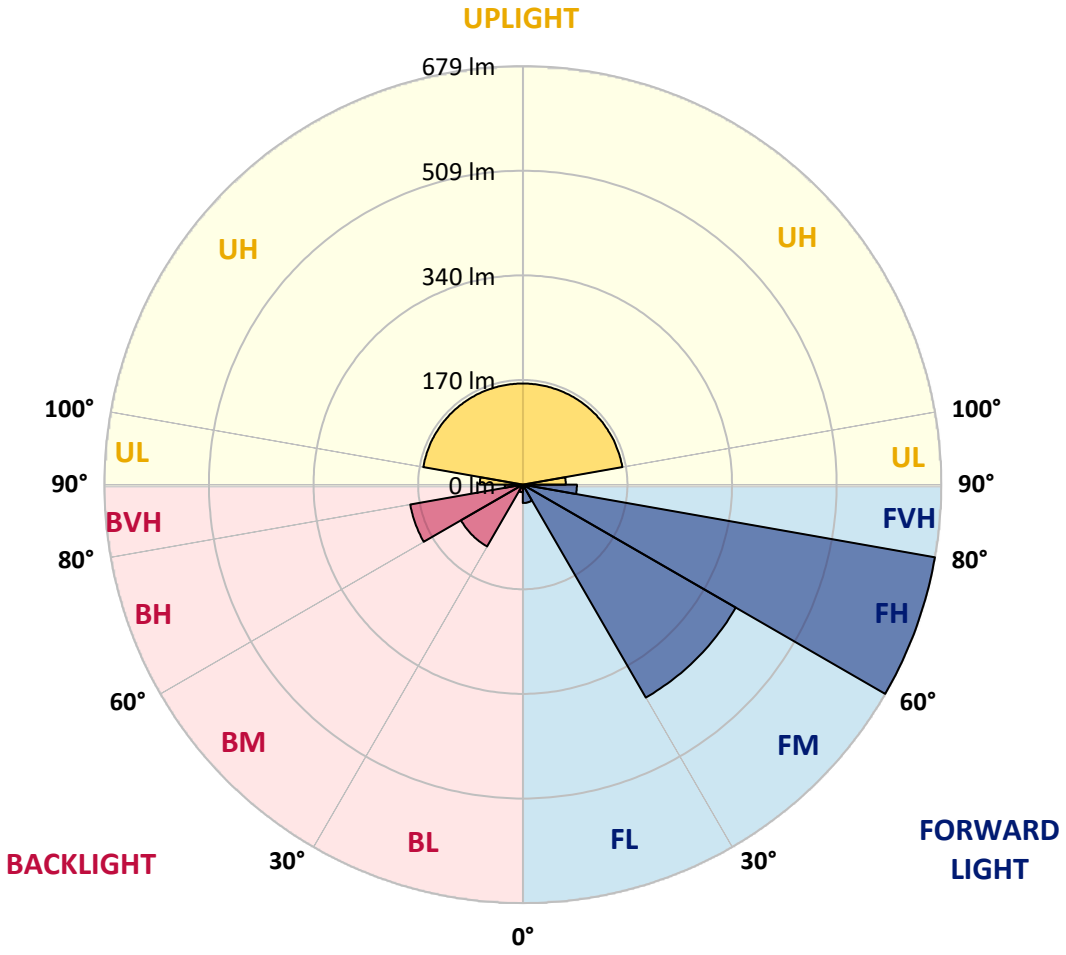
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	29.9	1.7			
FM	(30°-60°)	399.2	22.5			
FH	(60°-80°)	679.3	38.3			G1/1800
FVH	(80°-90°)	87.8	5.0			G1/100
BL	(0°-30°)	12.3	0.7	B0/110		
BM	(30°-60°)	115.9	6.5	B0/220		
BH	(60°-80°)	185.5	10.5	B1/500		G1/500
BVH	(80°-90°)	29.3	1.7			G1/100
UL	(90°-100°)	69.8	3.9		U3/500	
UH	(100°-180°)	164.0	9.3		U3/500	

BUG Rating: B1-U3-G1
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
2.5°	32.4	32.2	32.8	35.6	43.0	45.4	43.4	39.9	39.3	43.0	45.8
5°	44.2	43.8	43.4	40.5	37.7	39.1	43.2	44.2	40.1	32.6	27.7
7.5°	44.8	44.4	44.6	44.6	44.0	41.4	38.3	39.7	43.2	38.5	30.4
10°	49.9	49.7	49.7	49.5	48.9	48.1	47.9	44.8	39.5	35.4	33.8
12.5°	58.3	58.3	58.1	57.9	57.2	55.8	54.0	51.5	49.9	45.0	39.9
15°	65.0	64.4	64.8	64.2	63.1	62.3	60.1	57.4	52.6	49.3	44.8
17.5°	71.5	71.5	71.7	70.7	69.5	68.9	66.4	62.9	58.3	52.6	48.3
20°	79.6	79.0	79.0	78.0	76.6	74.6	72.3	69.3	65.4	57.6	51.9
22.5°	87.4	87.6	87.6	86.0	83.7	81.9	78.8	75.2	71.5	63.6	56.2
25°	96.1	95.9	95.7	95.5	93.3	90.0	86.2	82.3	79.6	71.9	61.7
27.5°	104.3	103.9	103.7	104.7	102.7	99.4	93.7	89.0	86.2	78.2	66.8
30°	113.3	113.1	113.1	113.5	112.7	107.6	101.4	95.9	91.9	83.9	71.7
32.5°	121.2	120.8	121.0	122.6	122.4	115.9	110.4	103.7	98.6	92.3	78.8
35°	140.8	139.9	141.2	143.6	145.4	138.5	131.0	120.6	112.9	106.3	92.5
37.5°	176.0	176.2	176.6	173.4	166.4	161.3	157.7	149.3	139.7	128.7	112.4
40°	177.4	177.2	178.2	183.1	186.0	177.2	168.7	158.9	156.4	147.1	126.3
42.5°	193.9	192.7	193.7	198.4	202.3	197.0	189.4	172.9	164.0	155.6	138.5
45°	217.6	216.1	218.0	218.8	218.0	212.3	213.5	200.0	191.7	174.8	150.9
47.5°	253.6	260.1	261.2	261.4	269.5	261.8	256.9	244.0	225.1	204.9	177.8
50°	356.1	366.7	363.0	359.5	360.2	354.2	347.5	329.8	304.3	270.3	231.6
52.5°	508.2	504.2	504.8	507.0	512.7	486.5	475.0	448.4	407.2	366.5	310.7
55°	694.4	701.4	701.0	708.3	707.3	679.0	642.9	598.1	538.2	478.5	412.5
57.5°	924.6	912.4	904.3	890.8	879.2	840.7	816.9	768.4	689.1	599.5	514.8
60°	1053.8	1047.1	1045.0	1026.5	1010.6	963.3	914.2	861.7	799.8	693.8	597.7
62.5°	1102.3	1105.5	1102.7	1090.6	1080.1	1038.7	956.2	899.0	843.6	741.7	640.5
65°	1139.5	1141.4	1134.9	1107.6	1078.6	1041.6	952.7	896.3	843.8	743.5	644.5
67.5°	1093.9	1093.5	1088.4	1049.1	1000.2	963.5	882.9	822.2	777.5	693.8	598.3
70°	908.3	909.6	910.6	881.6	828.1	800.8	719.1	666.9	628.4	556.1	487.5
72.5°	711.1	714.8	716.4	693.8	654.1	626.0	571.4	532.3	496.4	439.0	385.0
75°	534.9	538.6	537.6	523.5	495.6	487.9	461.4	428.0	398.0	353.4	307.8
77.5°	401.3	398.2	397.4	383.8	356.3	358.3	350.8	331.6	308.4	282.1	250.4
80°	265.8	263.2	257.9	262.6	260.3	253.8	241.4	231.6	222.4	206.8	189.4
82.5°	195.6	194.7	193.7	190.7	188.6	187.0	181.5	165.8	154.8	145.9	135.5
85°	182.9	180.5	180.9	175.6	169.3	163.6	159.3	152.6	144.0	130.0	114.9
87.5°	159.7	159.7	158.5	154.8	148.5	147.1	144.0	139.3	134.2	123.4	110.0
90°	132.8	132.0	132.0	131.8	130.4	129.4	123.4	119.2	116.9	106.1	96.8
92.5°	122.6	122.2	121.4	120.4	116.3	115.5	109.6	104.1	99.2	92.5	85.1
95°	99.6	100.4	98.6	98.4	96.4	95.1	90.4	87.8	84.5	79.0	72.3
97.5°	84.1	82.9	83.1	81.3	79.2	78.4	75.6	71.7	68.6	64.4	59.5
100°	77.2	77.0	76.6	75.2	72.3	70.5	67.4	63.8	60.7	56.8	52.8
102.5°	72.7	72.5	72.3	71.1	67.8	66.8	64.0	61.1	58.5	55.0	49.7
105°	68.2	68.0	67.6	66.2	64.2	63.1	60.5	58.9	56.2	53.2	48.1
107.5°	64.2	64.2	64.0	62.3	61.1	60.3	57.6	56.2	53.4	50.7	45.8
110°	62.1	62.1	61.9	60.7	58.3	57.0	54.6	52.8	50.1	47.5	43.6

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	59.9	*60.1*	60.1	60.5	54.6	52.4	50.3	48.9	46.6	44.2	40.9
115°	54.8	*55.0*	54.8	56.8	54.8	51.7	50.5	48.1	45.2	41.4	37.9
117.5°	55.2	*55.2*	55.6	56.6	55.6	52.8	50.1	47.1	44.6	40.7	37.7
120°	62.5	*62.1*	62.1	60.1	59.7	57.0	55.2	51.9	47.9	44.0	39.7
122.5°	60.1	*59.9*	60.1	56.8	56.6	56.0	55.4	54.8	49.5	47.3	41.8
125°	48.1	*47.7*	47.5	46.2	48.3	46.9	46.4	47.9	44.4	42.4	39.3
127.5°	43.0	*42.6*	42.4	42.0	43.2	40.7	40.3	40.7	38.1	35.6	33.8
130°	41.1	*40.5*	40.5	42.0	43.8	41.8	39.5	37.9	36.9	35.2	32.2
132.5°	38.9	*38.9*	39.1	40.9	44.2	42.0	37.9	34.6	34.2	34.4	33.0
135°	38.3	*38.1*	38.3	37.7	37.5	36.3	34.4	31.8	31.2	32.8	31.2
137.5°	39.3	*39.1*	38.9	37.3	35.4	34.4	34.0	32.4	30.8	29.7	28.1
140°	38.9	*38.9*	38.7	38.3	37.1	35.0	34.6	33.0	31.4	29.5	27.5
142.5°	39.5	*40.1*	40.5	40.9	40.5	38.3	36.1	33.4	31.6	30.6	28.3
145°	48.7	*48.7*	48.7	47.9	46.4	44.6	43.0	41.1	39.7	36.5	33.4
147.5°	40.3	*40.3*	40.1	40.3	40.3	39.5	39.3	38.7	38.9	37.3	34.2
150°	27.9	*28.5*	28.5	29.5	29.9	29.5	29.5	29.9	29.3	29.1	27.5
152.5°	22.6	*22.4*	22.0	22.4	22.4	22.6	22.6	22.2	22.0	22.0	21.0
155°	20.0	*20.0*	20.0	19.8	19.4	19.6	19.8	19.8	19.1	18.7	17.9
157.5°	15.9	*15.7*	15.7	16.1	16.1	16.1	16.1	16.1	16.1	16.3	16.5
160°	13.4	*13.0*	13.2	13.2	13.4	13.6	13.4	13.6	13.6	13.9	13.6
162.5°	11.0	*10.8*	10.8	11.0	11.2	11.4	11.6	11.6	11.8	12.2	12.4
165°	9.8	*9.8*	9.8	10.0	10.0	10.2	10.4	10.6	11.0	11.6	11.8
167.5°	9.2	*9.2*	9.2	9.2	9.4	9.6	10.0	10.6	11.0	11.6	11.6
170°	9.0	*9.0*	9.2	9.2	9.2	9.4	10.2	10.8	11.0	11.2	11.2
172.5°	9.4	*9.4*	9.4	9.4	9.4	9.8	10.8	11.0	11.0	11.0	11.2
175°	9.8	*9.8*	9.6	9.6	9.8	10.0	10.2	11.2	11.6	11.8	12.2
177.5°	9.2	*9.2*	9.2	9.4	9.4	9.6	9.8	10.2	10.2	10.6	11.2
180°	10.2	*10.2*	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
2.5°	47.9	51.3	47.1	42.6	39.3	41.1	43.2	41.6	39.7	39.9	36.5
5°	28.7	29.5	29.9	26.1	21.6	24.0	29.3	27.5	21.2	11.8	10.2
7.5°	27.7	26.5	26.1	28.9	26.3	17.5	13.6	12.4	16.5	19.8	20.8
10°	32.8	31.4	28.3	23.2	20.6	19.4	18.9	18.1	15.7	12.2	11.6
12.5°	37.7	36.1	33.2	30.8	27.3	22.8	20.0	19.1	20.6	23.0	23.0
15°	42.6	40.3	36.7	33.4	30.8	25.9	22.2	18.9	18.5	19.1	19.1
17.5°	46.0	43.6	39.3	34.8	30.1	25.5	21.2	17.9	16.5	16.1	16.1
20°	49.5	47.3	42.2	37.3	31.6	26.1	21.2	17.7	16.1	15.5	15.3
22.5°	54.0	51.1	45.4	40.1	33.2	26.5	21.0	17.9	16.1	15.1	14.9
25°	59.1	55.8	49.3	43.0	34.8	26.9	21.2	18.1	16.3	15.1	14.9
27.5°	63.1	59.7	53.4	46.2	36.9	27.9	22.0	18.5	16.5	15.3	15.1
30°	67.8	64.2	57.0	49.7	39.3	29.5	23.6	19.8	17.3	15.7	15.7
32.5°	75.0	70.1	62.1	53.0	41.8	31.4	25.5	21.2	18.1	16.9	16.9
35°	86.6	81.7	71.1	59.3	44.4	33.2	26.9	22.6	19.1	17.5	17.5
37.5°	105.1	97.8	86.0	69.7	48.7	34.6	28.5	23.6	19.8	17.5	17.1
40°	115.9	107.8	92.9	77.4	54.0	36.5	29.7	24.4	20.2	17.7	17.5
42.5°	127.9	118.6	99.4	79.4	57.4	40.7	31.6	25.3	20.6	18.3	17.9
45°	140.6	131.6	114.3	90.2	65.6	46.6	34.6	26.9	21.8	19.1	18.7
47.5°	163.6	152.6	130.2	105.5	77.6	56.0	41.4	29.5	23.2	20.0	19.6
50°	215.3	205.1	174.0	137.1	96.8	69.5	51.7	35.0	25.5	20.6	20.0
52.5°	285.4	267.3	232.0	185.8	135.1	97.4	69.1	47.3	28.9	21.2	20.2
55°	387.2	367.1	314.9	254.6	185.0	141.4	104.5	71.1	41.1	21.8	20.0
57.5°	488.5	464.0	420.2	337.7	248.5	180.3	139.7	104.1	59.9	24.4	20.6
60°	561.0	531.3	477.1	401.5	301.5	212.1	157.9	113.5	66.6	25.1	21.2
62.5°	603.8	566.5	498.5	408.2	314.1	225.3	165.2	107.1	57.2	24.4	22.0
65°	*611.5*	*569.2*	*498.5*	*396.6*	*301.1*	*213.7*	*159.7*	*99.0*	*45.2*	*23.4*	*22.6*
67.5°	567.1	527.6	467.9	364.2	267.1	183.5	137.5	81.5	34.4	22.6	22.4
70°	465.5	435.7	387.0	297.6	216.7	149.3	109.4	62.7	27.9	21.6	21.2
72.5°	363.2	335.7	299.2	233.4	167.7	118.4	83.5	49.1	24.9	20.8	20.6
75°	285.8	265.2	235.1	184.4	126.1	89.6	63.4	37.1	22.4	20.4	20.0
77.5°	233.9	220.4	189.2	140.8	94.1	66.6	47.3	29.5	21.4	20.0	19.8
80°	181.9	170.7	151.2	105.3	67.4	50.1	37.3	26.1	20.8	19.8	19.6
82.5°	129.8	125.9	109.4	81.9	56.2	43.0	33.6	25.1	20.6	19.6	19.4
85°	108.4	102.9	90.6	71.1	51.7	40.9	32.2	24.6	20.6	19.6	19.4
87.5°	104.7	99.8	88.6	67.8	48.7	38.5	30.8	23.8	20.2	19.1	19.1
90°	92.5	87.6	79.0	61.1	44.8	35.9	28.7	22.6	19.4	18.3	18.3
92.5°	81.9	79.0	70.9	56.0	43.0	34.4	27.7	22.0	18.9	18.1	17.9
95°	69.3	66.8	60.5	50.5	40.3	32.8	26.9	21.4	18.5	17.7	17.7
97.5°	57.4	55.4	50.5	42.8	34.8	29.1	24.2	20.2	17.9	17.3	17.3
100°	50.7	49.1	44.8	38.5	32.2	27.3	23.4	20.0	17.7	16.9	16.9
102.5°	48.1	46.4	42.2	36.5	30.6	26.1	22.8	19.6	17.5	16.7	16.5
105°	46.0	44.4	40.5	34.6	28.9	24.9	21.6	19.1	17.1	16.5	16.3
107.5°	44.0	42.2	38.5	32.6	27.5	23.6	20.8	18.5	16.9	16.3	16.3
110°	41.8	40.1	36.7	31.0	26.5	22.8	20.4	18.3	16.9	16.3	16.3

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

Scaled Data Report

REPORT NUMBER: P1045740
CATALOG NUMBER: FFX-CLB-20-722-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	39.3	37.7	34.4	29.3	25.5	22.2	20.0	18.1	16.9	16.3	16.3
115°	36.5	35.0	32.0	27.7	24.2	21.4	19.4	17.7	16.5	16.1	16.1
117.5°	35.6	34.0	31.0	27.1	23.8	20.8	18.9	17.3	16.3	15.9	15.9
120°	37.5	35.2	32.0	28.3	23.8	20.4	18.5	17.1	16.1	15.7	15.7
122.5°	39.9	38.1	34.4	27.7	23.0	20.0	18.1	16.9	15.9	15.7	15.7
125°	37.7	36.5	33.0	25.7	22.2	19.6	17.9	16.9	16.1	15.7	15.7
127.5°	33.0	31.8	29.1	24.4	21.4	19.1	17.7	16.9	16.3	15.7	15.7
130°	31.2	29.5	27.1	23.4	20.6	18.5	17.5	16.9	16.3	15.5	15.3
132.5°	32.0	30.6	26.7	22.0	19.4	17.7	16.9	16.5	15.3	14.5	14.3
135°	30.1	28.7	24.9	21.0	18.7	17.5	16.7	15.5	14.3	13.2	13.2
137.5°	26.9	25.3	23.0	20.2	18.5	17.9	16.9	15.3	13.6	12.8	12.8
140°	26.7	24.9	22.8	20.0	18.1	16.5	15.3	13.6	12.4	12.0	11.8
142.5°	27.1	25.9	23.0	19.8	17.3	15.3	13.9	12.6	11.8	11.2	11.2
145°	31.4	29.5	25.9	21.6	18.7	16.3	14.3	12.6	11.4	10.4	10.2
147.5°	32.4	30.6	27.3	23.6	20.0	16.9	14.1	12.0	10.4	9.6	9.4
150°	27.1	25.9	24.0	21.2	17.9	14.9	12.4	10.6	9.6	9.2	9.0
152.5°	20.6	20.2	18.9	16.9	14.7	12.6	11.0	10.0	9.4	9.2	9.0
155°	17.5	17.3	16.1	14.5	12.6	11.2	10.2	9.6	9.2	9.2	9.0
157.5°	16.3	15.9	14.9	13.2	11.6	10.8	9.8	9.4	9.2	9.2	9.2
160°	13.6	13.2	12.4	11.8	10.8	10.2	9.6	9.4	9.2	9.2	9.0
162.5°	12.2	11.8	11.4	10.8	10.6	10.4	10.2	9.8	9.6	9.4	9.4
165°	11.6	11.4	10.8	10.6	10.6	10.8	10.8	10.4	10.0	9.6	9.6
167.5°	11.4	11.2	10.8	10.6	11.0	11.2	11.4	11.0	10.6	10.0	9.8
170°	11.4	11.4	11.2	11.0	11.2	11.4	11.6	11.6	11.4	11.0	11.0
172.5°	11.4	11.6	11.4	11.4	11.4	11.4	11.4	11.8	11.8	11.6	11.6
175°	12.2	12.2	11.6	11.4	11.6	11.8	12.0	11.8	11.8	12.0	12.0
177.5°	11.2	11.6	12.4	12.6	13.0	13.0	12.6	12.4	11.8	11.6	11.6
180°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2

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: SP1-2501-332-7

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

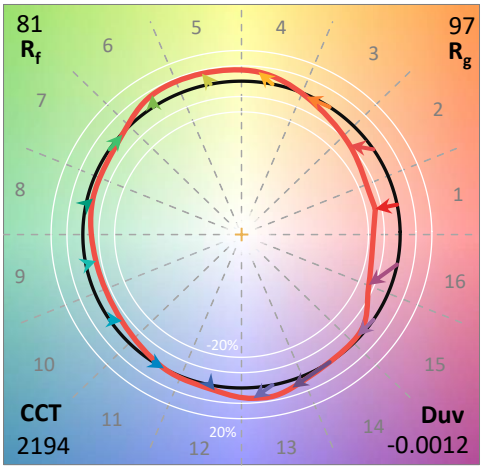
Test Information

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

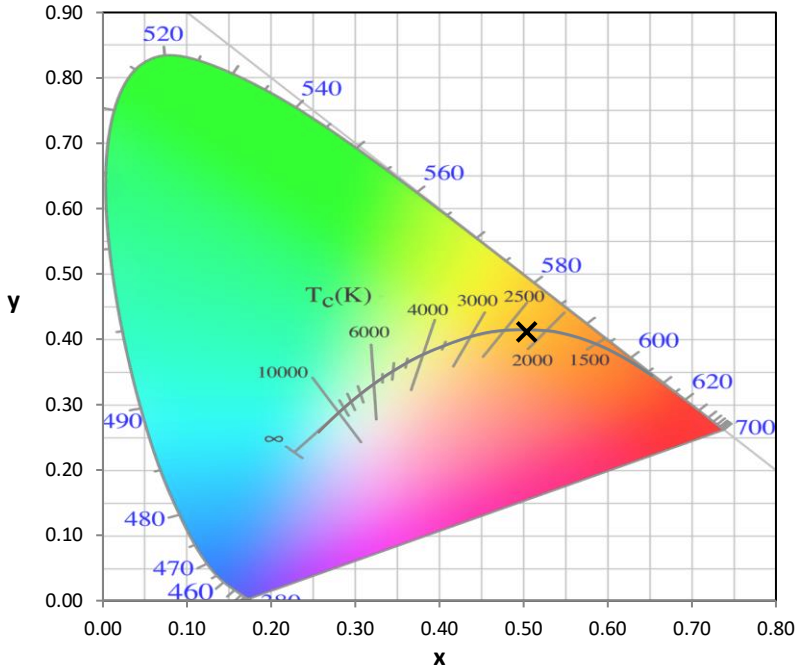
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-7

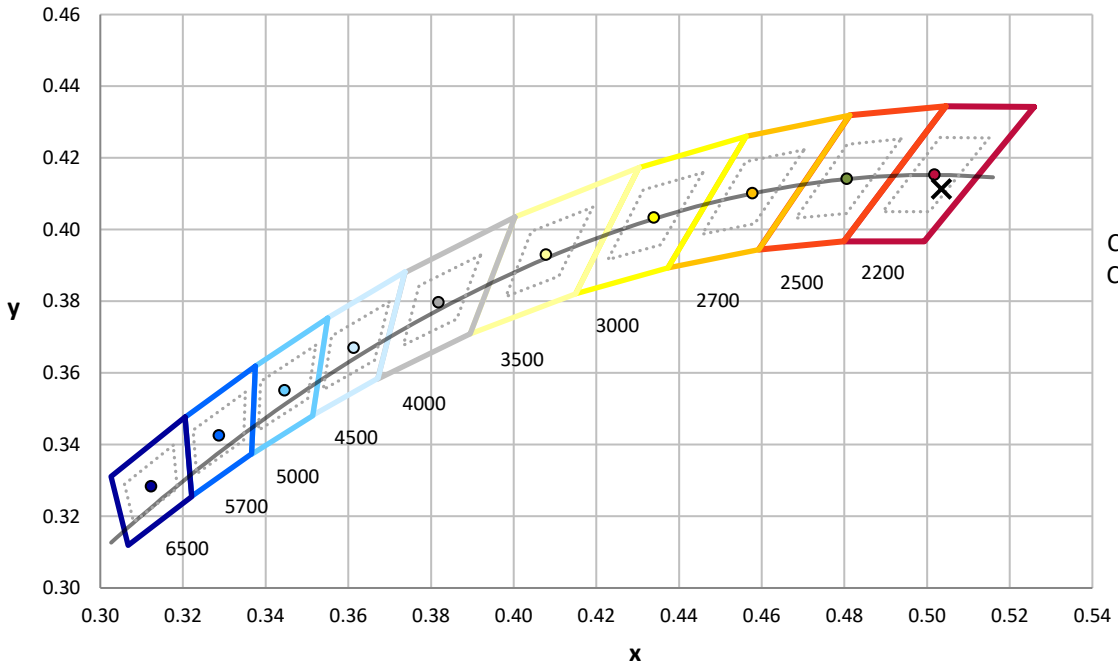
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

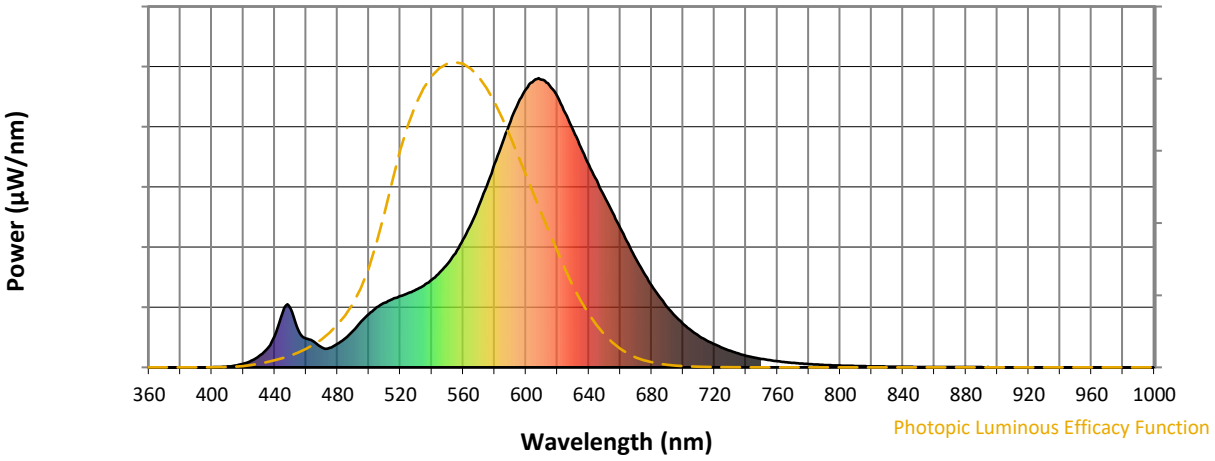


CCT = 2194K
CIE x = 0.5035
CIE y = 0.4113
Duv = -0.0012

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-7

Photopic Flux vs. Wavelength

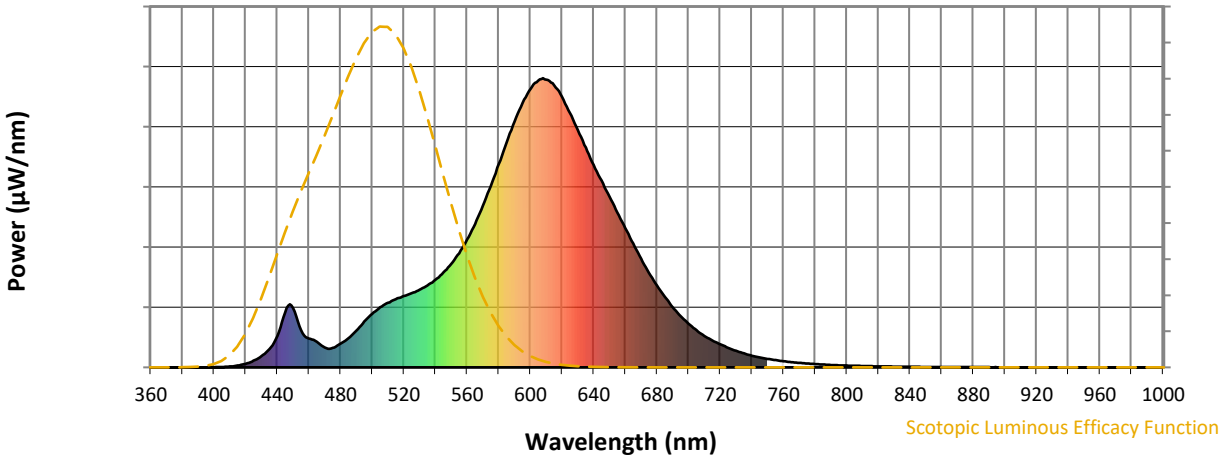


Photopic Lumens: NR

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

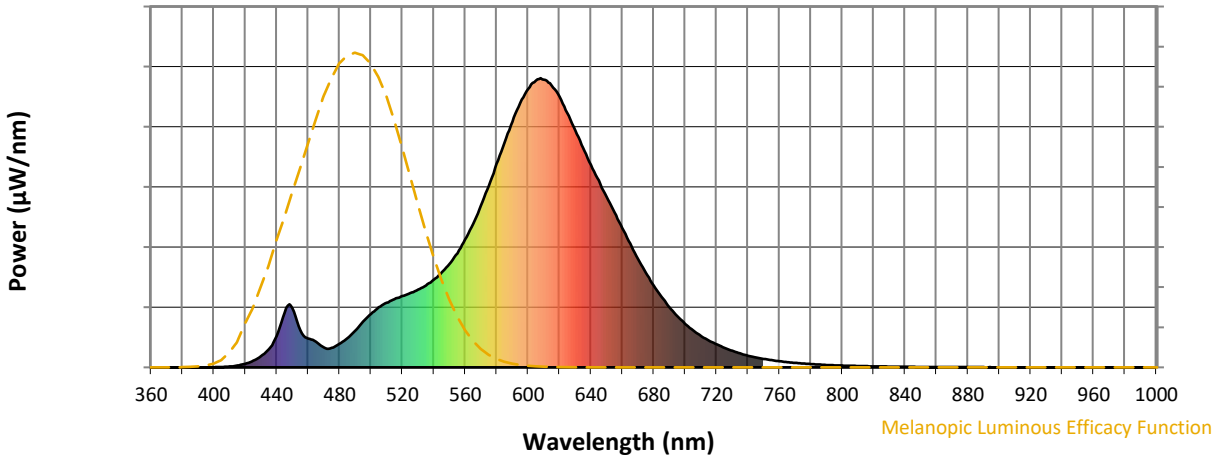


Scotopic Lumens: NR **S/P: 0.96**

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			

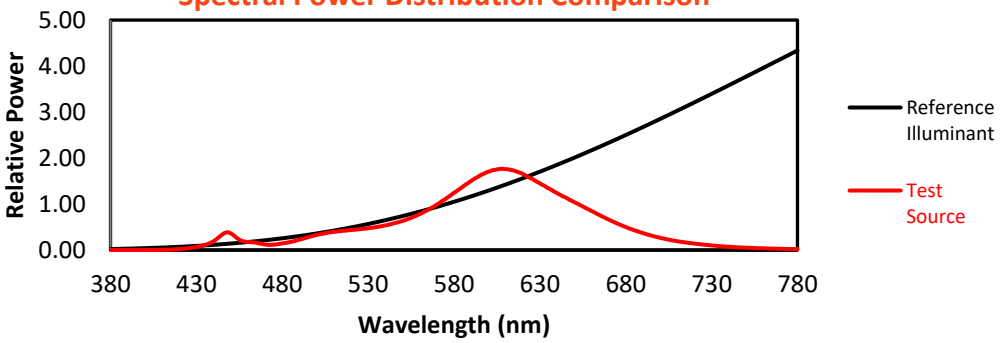
REPORT NUMBER: SP1-2501-332-7

TM-30-18

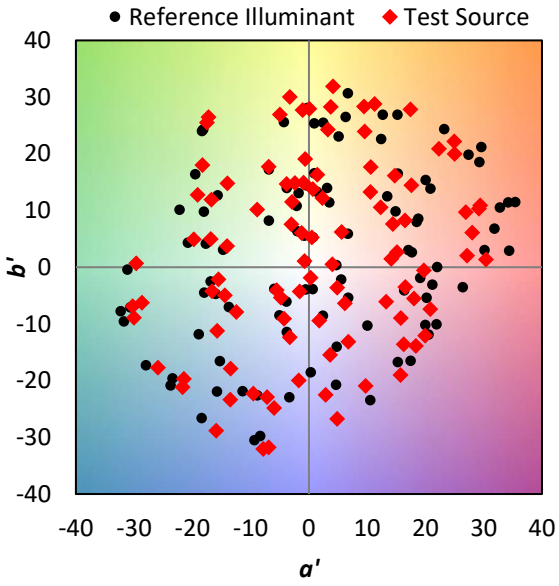
Summary

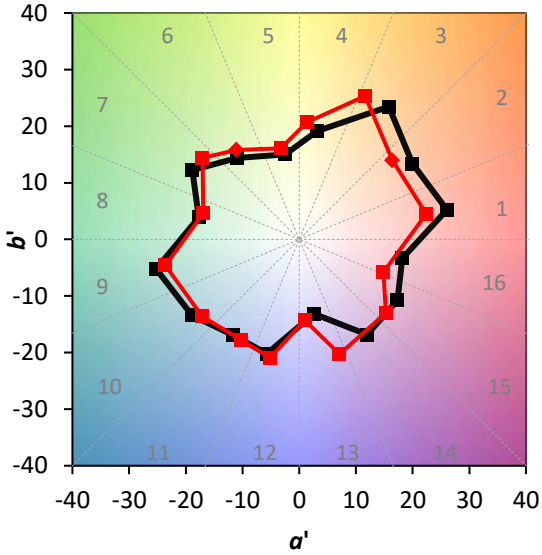
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R_g = 96.6
CIE R_a = 76.9
R_9 = -13.4

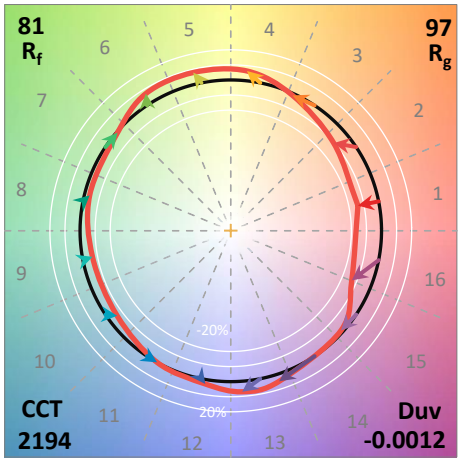
Spectral Power Distribution Comparison

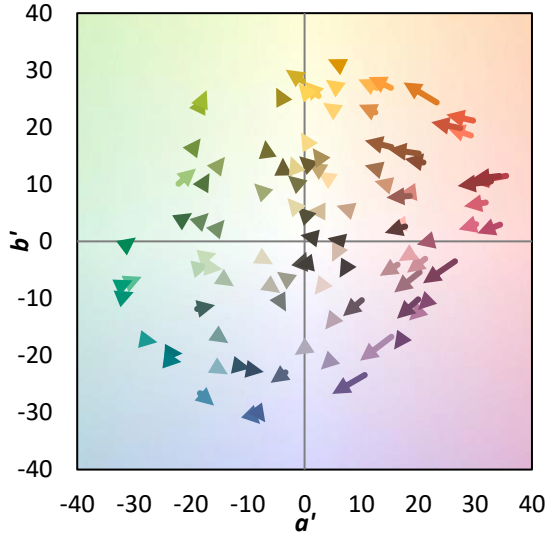


Color Vector Graphics







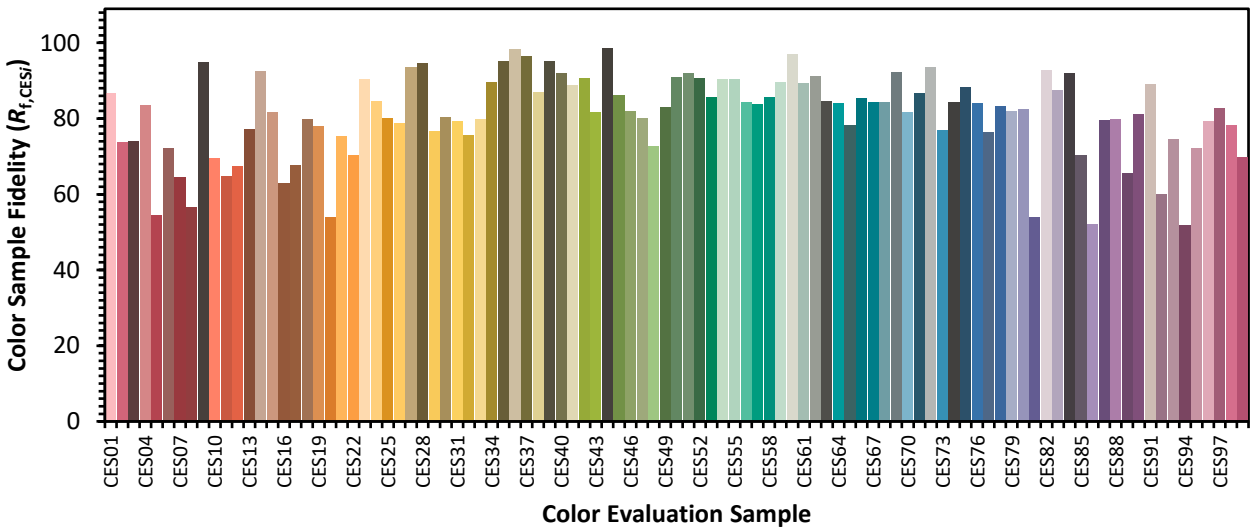


REPORT NUMBER: SP1-2501-332-7

TM-30-18

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

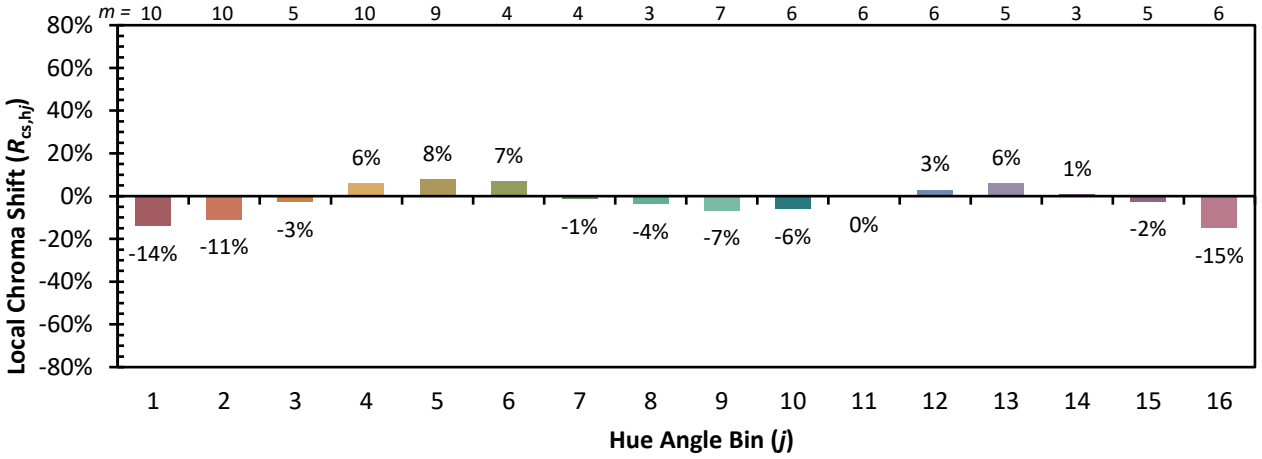
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CES02 = 65	CES27 = 94	CES52 = 91	CES77 = 76
CES03 = 32	CES28 = 95	CES53 = 86	CES78 = 83
CES04 = 72	CES29 = 77	CES54 = 90	CES79 = 82
CES05 = 52	CES30 = 80	CES55 = 90	CES80 = 82
CES06 = 52	CES31 = 79	CES56 = 84	CES81 = 54
CES07 = 44	CES32 = 76	CES57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

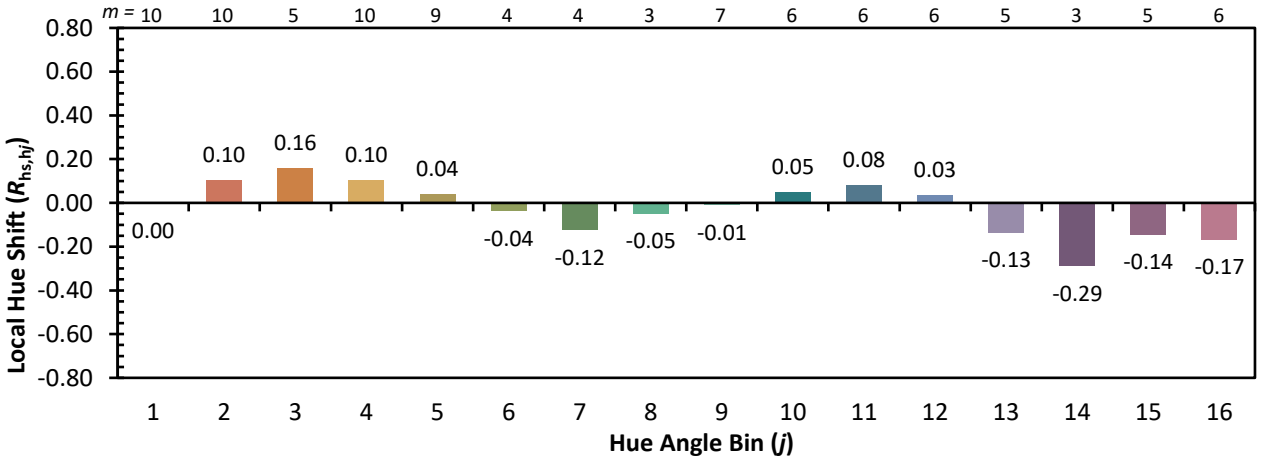


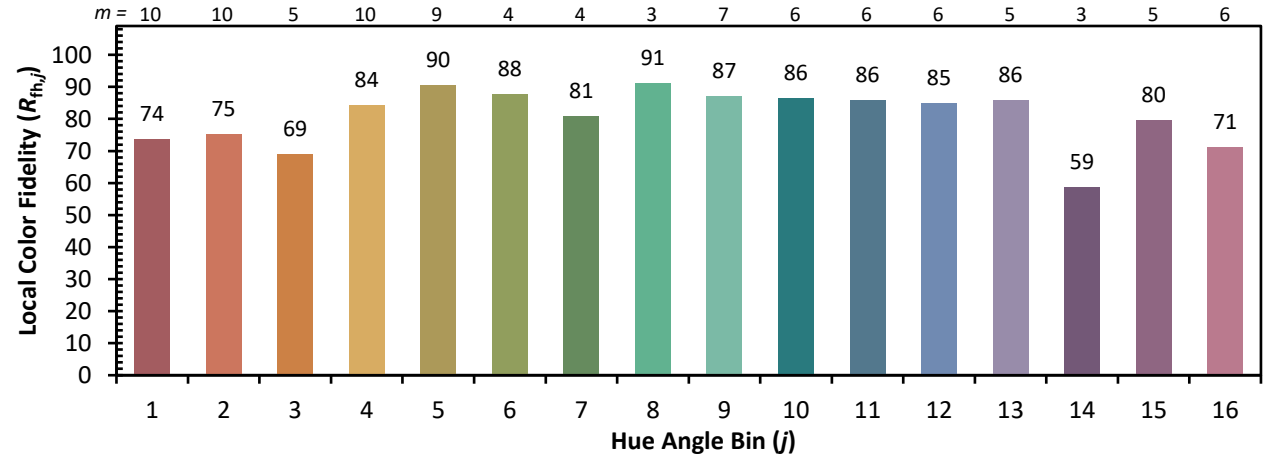
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Color Rendition by Hue-Angle Bin



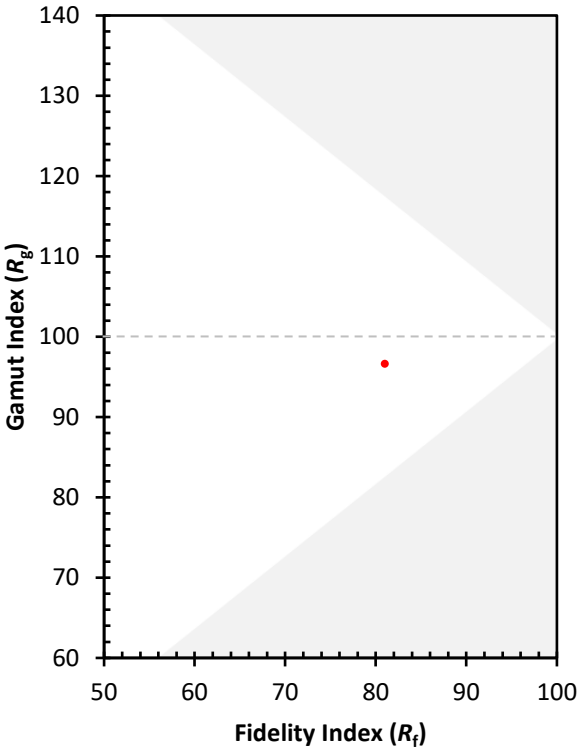


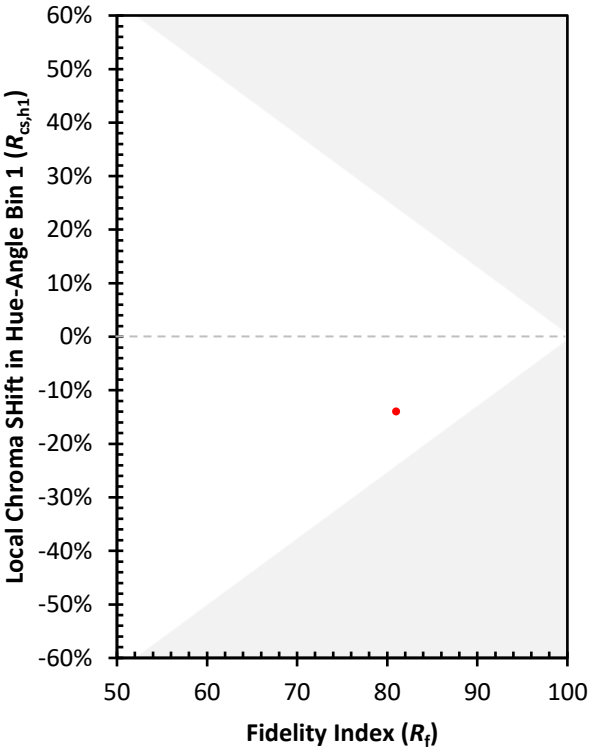


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Measure Comparisons





(END OF REPORT)