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: P1045794

Luminaire Tested: **FFX-CLB-20-727-U-FR-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045794
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-20-727-U-FR-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2046 lumens
Efficiency:	N/A
Efficacy:	103.3 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

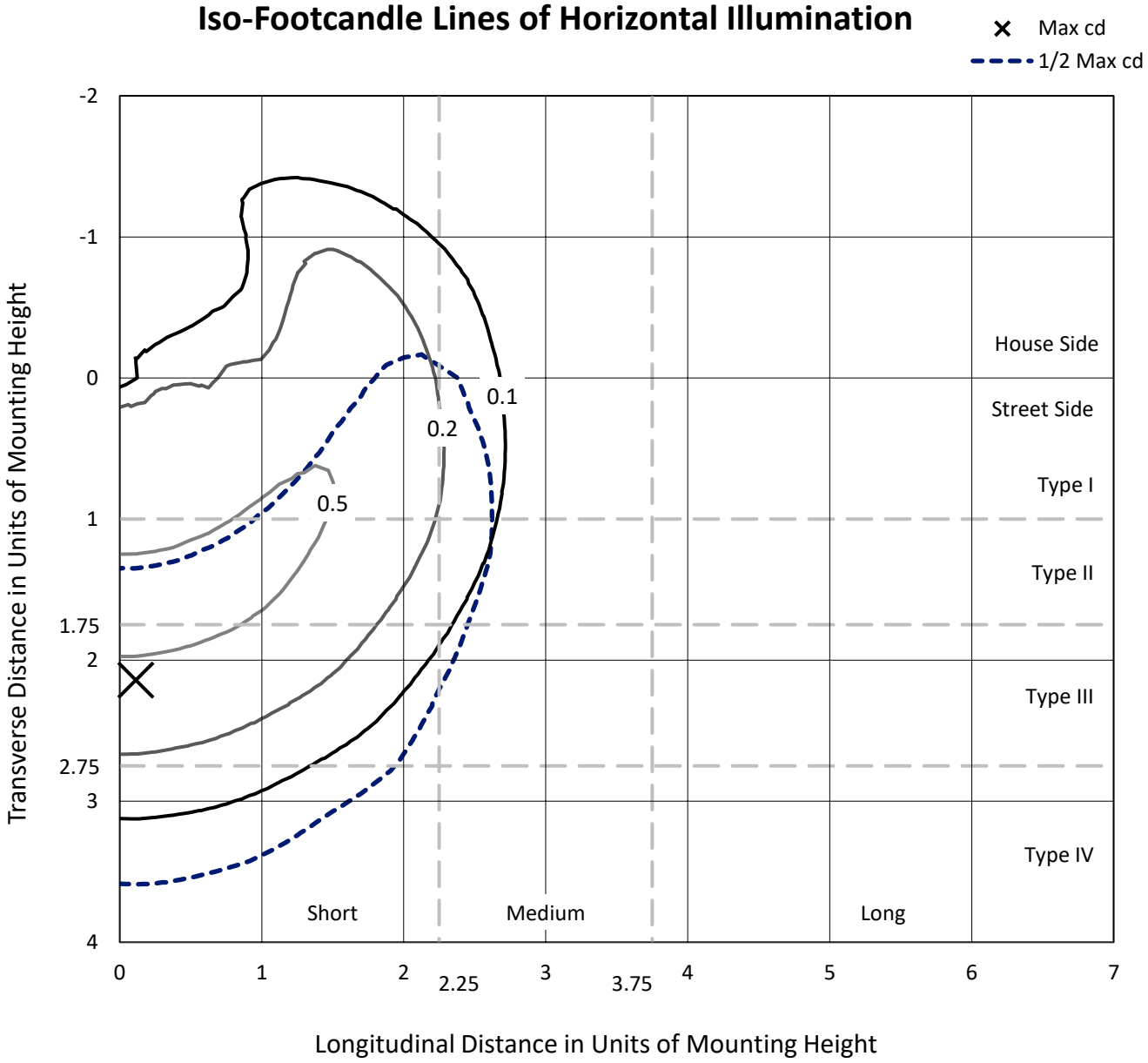


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Iso-Footcandle Lines of Horizontal Illumination



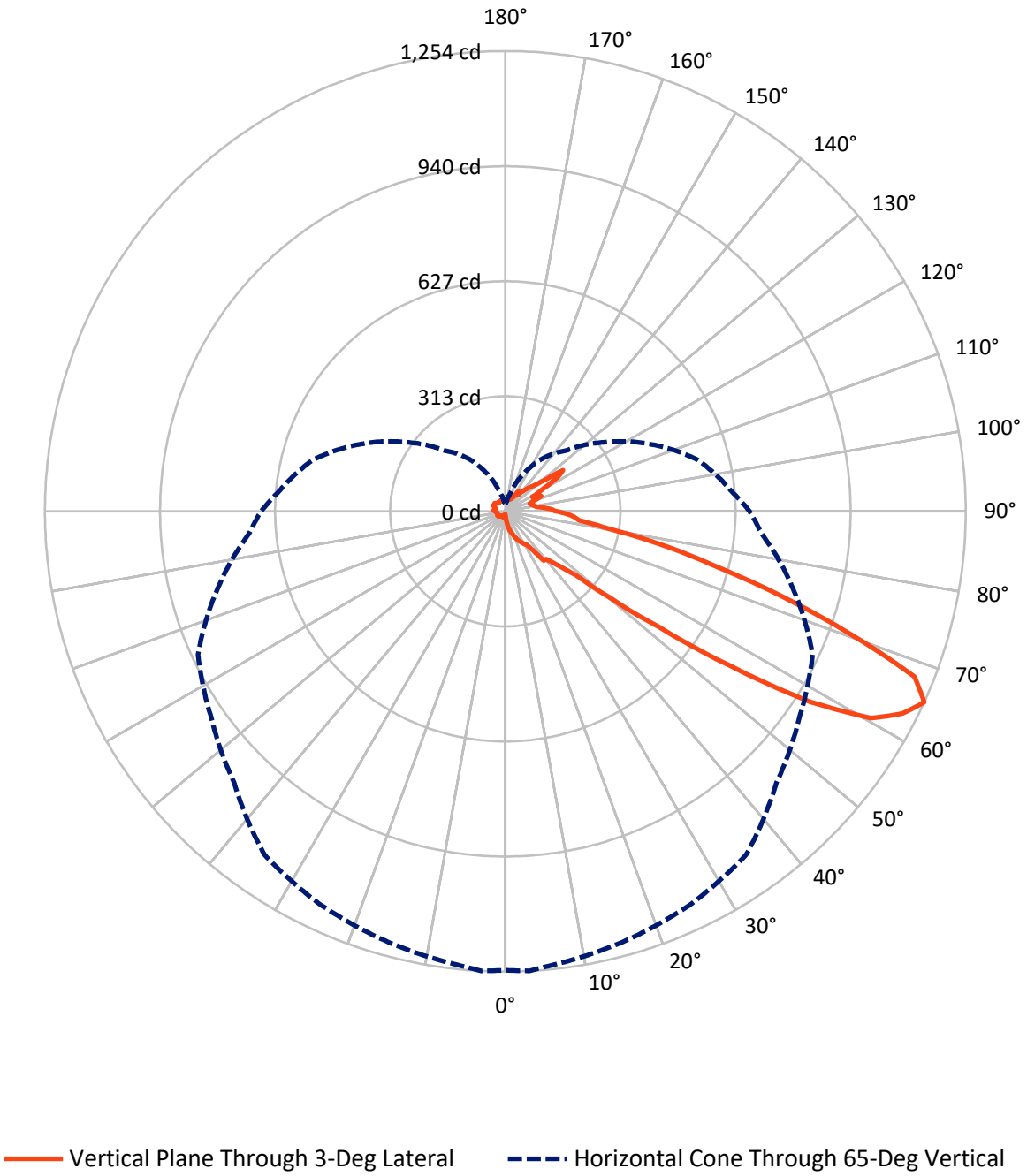
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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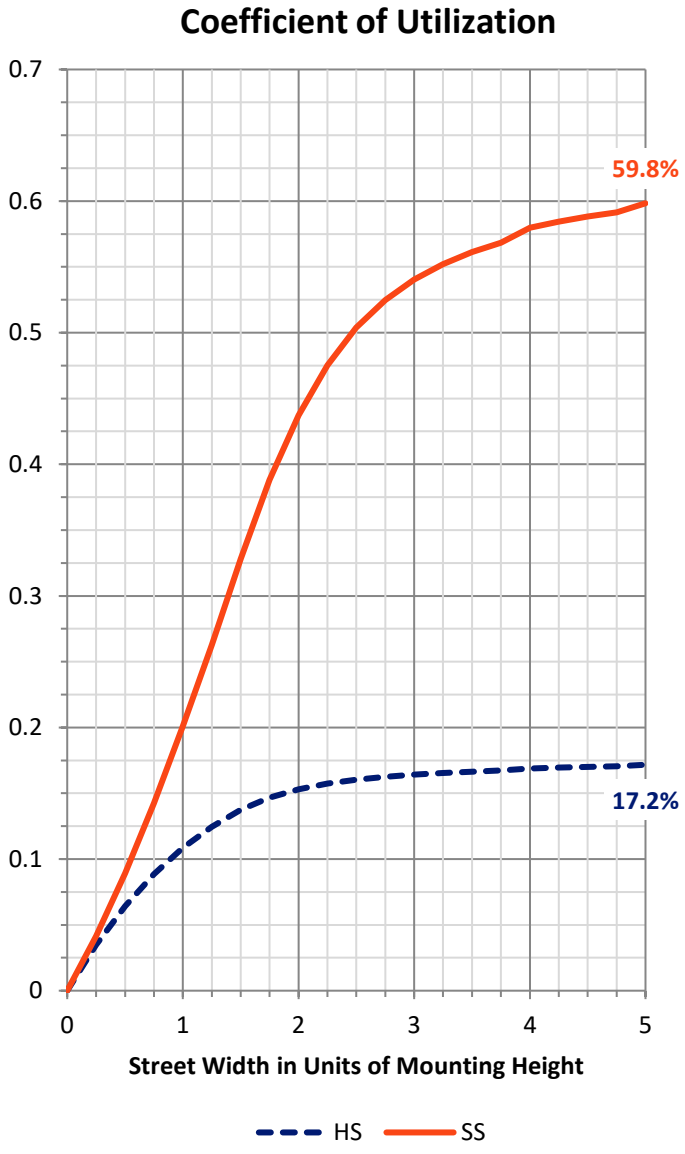
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	364.8	142.0	506.7
	% Fixture	17.8	6.9	24.8
Street Side	Lumens	1275.1	264.2	1539.3
	% Fixture	62.3	12.9	75.2
Total	Lumens	1639.8	406.2	2046.0
	% Fixture	80.1	19.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	11.6	0.6
20°-30°	25.5	1.2
30°-40°	51.0	2.5
40°-50°	110.0	5.4
50°-60°	376.0	18.4
60°-70°	611.0	29.9
70°-80°	328.8	16.1
80°-90°	123.9	6.1
90°-100°	78.2	3.8
100°-110°	55.5	2.7
110°-120°	61.3	3.0
120°-130°	93.7	4.6
130°-140°	56.2	2.7
140°-150°	31.0	1.5
150°-160°	17.3	0.8
160°-170°	9.6	0.5
170°-180°	3.5	0.2
0°-90°	1639.8	80.1
0°-180°	2046.0	100.0



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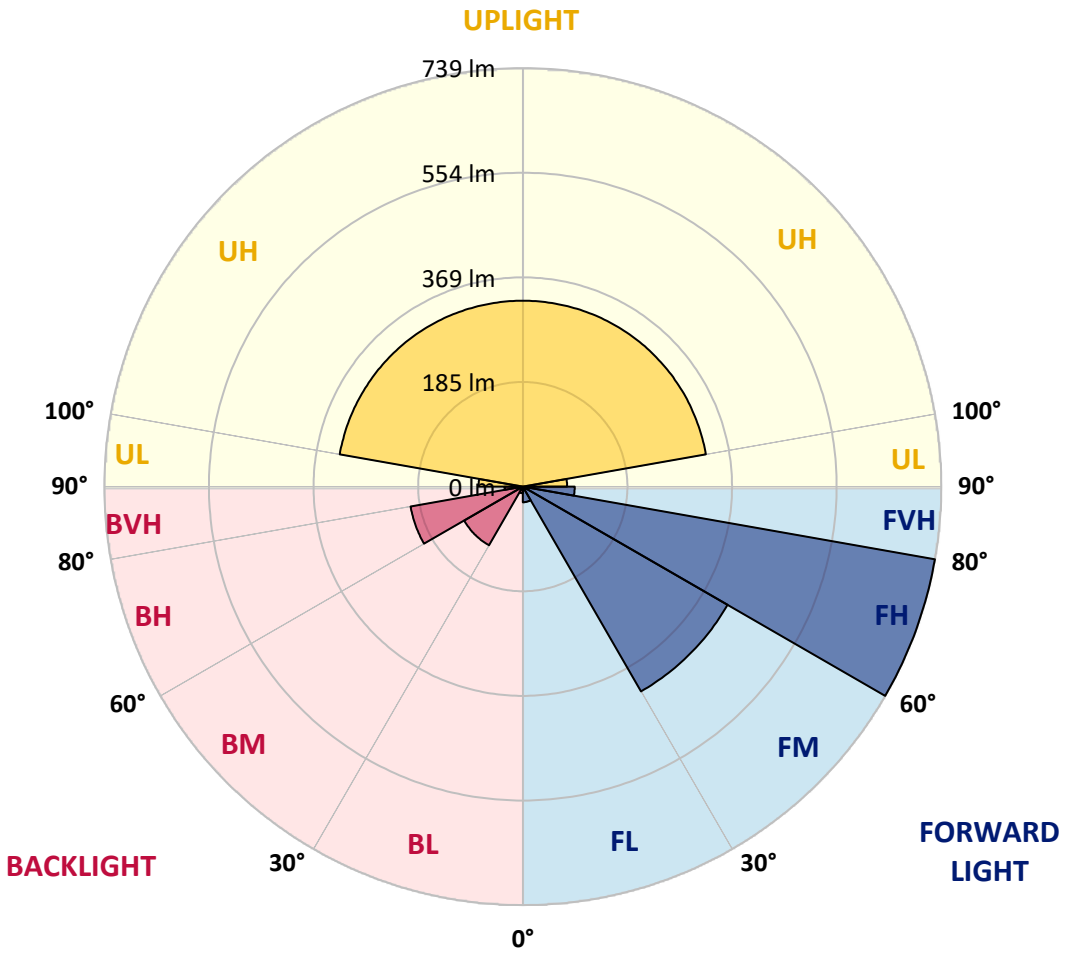
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	27.6	1.3			
FM	(30°-60°)	417.3	20.4			
FH	(60°-80°)	738.6	36.1			G1/1800
FVH	(80°-90°)	91.5	4.5			G1/100
BL	(0°-30°)	11.7	0.6	B0/110		
BM	(30°-60°)	119.6	5.8	B0/220		
BH	(60°-80°)	201.2	9.8	B1/500		G1/500
BVH	(80°-90°)	32.3	1.6			G1/100
UL	(90°-100°)	78.2	3.8		U3/500	
UH	(100°-180°)	328.0	16.0		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°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	16.3	16.5	16.5	16.5	17.0	17.2	17.0	16.3	15.4	14.9	14.4
5°	23.6	24.1	23.8	23.8	23.4	23.4	22.7	22.2	21.8	20.2	18.6
7.5°	32.8	32.3	32.1	31.6	31.9	30.7	29.8	29.8	29.1	27.5	25.0
10°	42.4	42.4	41.7	41.5	41.0	40.6	39.0	38.0	38.0	35.3	32.3
12.5°	52.9	52.7	52.9	52.5	51.8	50.7	48.8	46.8	45.6	43.1	38.7
15°	59.8	59.6	59.6	59.4	58.9	57.8	56.4	54.3	51.3	48.8	44.7
17.5°	67.2	66.7	66.7	65.5	64.6	63.3	62.1	60.0	56.4	51.8	47.9
20°	75.2	75.2	75.2	73.6	71.7	69.9	68.3	66.5	63.7	56.8	51.3
22.5°	82.7	83.0	82.7	81.1	79.5	76.6	74.0	71.7	69.0	62.1	55.5
25°	90.1	90.5	90.3	90.3	88.2	84.3	80.9	77.5	75.6	68.8	59.6
27.5°	96.5	96.7	96.9	98.1	96.9	92.6	87.1	83.0	81.6	74.0	63.0
30°	102.7	103.4	103.4	104.5	104.3	99.5	92.8	88.2	85.5	78.2	66.5
32.5°	108.6	109.1	109.3	112.1	111.8	105.4	99.7	94.7	90.1	84.6	72.4
35°	130.2	129.5	132.9	135.0	133.4	127.7	120.8	111.4	105.0	98.6	85.5
37.5°	170.3	169.8	169.8	165.2	158.8	152.2	150.4	140.5	132.7	124.5	106.6
40°	171.4	171.4	172.1	177.2	180.4	171.9	163.9	154.2	152.6	144.2	122.4
42.5°	188.2	190.0	191.8	195.3	201.0	195.5	186.3	171.0	163.6	154.9	136.4
45°	216.6	219.3	218.4	219.8	218.4	213.6	212.9	204.4	193.4	176.7	151.7
47.5°	263.6	262.0	261.1	266.6	275.5	266.6	264.5	251.0	229.9	208.6	180.1
50°	379.1	372.2	379.3	378.2	376.6	368.3	362.1	348.6	314.2	279.6	238.6
52.5°	533.8	522.6	529.0	533.3	528.7	517.1	498.5	472.1	425.8	381.1	327.1
55°	758.6	743.0	745.1	750.6	753.8	727.2	700.6	642.4	573.0	504.0	445.3
57.5°	1006.8	978.9	997.2	966.5	953.9	906.5	884.0	825.1	743.5	651.4	556.7
60°	1146.6	1143.7	1140.2	1116.4	1103.1	1049.9	997.2	942.0	868.9	760.0	649.3
62.5°	1207.4	1213.8	1208.8	1196.4	1184.5	1137.7	1046.0	980.5	921.1	809.3	698.8
65°	1250.2	1253.9	1245.4	1216.8	1184.5	1142.8	1044.9	978.0	923.6	810.9	700.9
67.5°	1201.2	1201.9	1191.6	1154.4	1088.9	1052.2	957.3	898.9	845.7	749.5	646.6
70°	989.4	991.5	985.1	952.1	897.1	865.2	773.8	713.7	673.6	607.1	531.3
72.5°	771.2	780.2	771.0	757.9	705.7	682.1	620.7	572.1	535.2	472.6	411.4
75°	579.9	581.9	582.1	567.5	540.0	534.7	492.5	460.4	428.4	377.0	332.1
77.5°	420.6	429.7	426.5	424.0	388.0	390.1	373.4	354.3	334.2	300.0	267.9
80°	279.2	284.0	278.2	279.6	274.8	273.7	258.1	245.2	232.9	217.0	204.4
82.5°	203.5	202.6	202.1	199.6	196.0	196.6	188.9	173.0	158.1	154.9	143.2
85°	188.2	187.5	186.8	182.2	174.4	169.6	165.2	158.8	149.7	135.2	120.1
87.5°	164.6	164.8	163.2	158.4	153.3	152.0	148.5	144.4	139.8	129.0	115.7
90°	135.5	134.8	135.0	132.2	133.2	132.7	127.4	122.4	120.6	111.4	103.6
92.5°	125.1	124.5	124.7	122.6	119.4	118.7	113.0	106.8	104.1	98.3	92.4
95°	104.5	104.5	103.6	102.7	101.1	98.8	95.8	91.7	89.6	85.0	79.1
97.5°	87.8	86.9	87.6	85.9	84.6	83.7	81.4	77.2	75.2	71.7	67.2
100°	81.6	81.6	81.4	80.7	77.2	75.4	72.9	69.0	67.4	64.4	61.0
102.5°	78.2	77.9	77.7	77.0	73.8	70.6	67.4	65.1	63.3	60.7	57.1
105°	71.5	71.5	72.0	71.7	69.4	67.4	63.9	61.9	60.0	57.5	54.1
107.5°	70.8	70.6	70.6	67.8	64.9	63.7	61.2	59.4	57.8	55.2	51.3
110°	81.1	81.6	82.3	77.7	70.6	67.6	63.9	61.9	60.0	56.8	52.7

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	106.3	*106.3*	105.9	103.4	91.0	82.7	80.9	75.6	72.7	67.8	62.1
115°	95.6	*95.8*	95.6	96.3	95.3	85.0	86.9	78.2	83.2	72.0	68.1
117.5°	83.4	*83.2*	82.3	82.5	83.4	90.1	75.6	73.6	75.6	65.5	62.1
120°	116.4	*114.4*	116.4	107.9	106.6	107.7	99.5	97.9	89.2	77.0	67.8
122.5°	171.4	*168.2*	172.8	169.8	172.1	164.6	156.5	149.9	140.3	119.9	101.5
125°	193.7	*193.0*	191.8	187.7	184.0	180.8	182.2	184.7	179.5	163.0	141.6
127.5°	142.6	*144.4*	143.7	152.0	160.0	158.1	153.3	155.6	158.4	157.5	144.8
130°	113.7	*115.3*	116.2	124.2	131.1	131.1	123.3	121.2	123.5	128.3	123.5
132.5°	99.7	*100.2*	100.6	103.4	109.1	111.8	107.0	103.8	104.7	107.3	103.1
135°	89.8	*89.6*	88.9	87.1	87.6	90.3	92.4	91.9	91.2	91.2	88.9
137.5°	77.9	*77.7*	77.7	74.9	73.8	76.1	79.1	81.8	80.0	77.5	74.7
140°	64.9	*64.6*	64.9	66.5	66.9	67.2	68.8	68.8	68.8	68.5	67.4
142.5°	53.9	*54.1*	54.5	58.7	60.7	60.7	58.7	56.8	56.6	58.0	58.2
145°	66.2	*66.2*	66.5	66.2	64.9	63.5	62.1	62.1	60.7	57.5	55.9
147.5°	59.1	*60.0*	59.4	60.0	60.5	60.7	60.5	61.2	61.4	59.6	57.1
150°	46.5	*46.3*	45.8	46.5	47.7	49.0	49.5	50.0	50.2	50.2	50.2
152.5°	40.3	*40.6*	40.3	41.0	41.7	41.9	42.6	42.6	42.9	42.6	42.2
155°	39.2	*39.2*	39.2	39.2	39.4	39.9	40.8	41.3	40.8	40.1	39.0
157.5°	36.4	*36.4*	36.4	36.7	37.1	37.6	38.3	38.7	38.7	38.3	37.4
160°	34.8	*34.8*	34.8	34.8	35.3	35.8	36.2	36.7	36.7	36.4	35.8
162.5°	33.0	*33.0*	33.0	33.2	33.7	34.1	34.6	35.1	34.8	34.8	34.4
165°	32.8	*32.8*	32.8	33.0	33.5	34.1	34.4	34.4	34.6	34.6	34.6
167.5°	33.7	*33.7*	33.9	33.9	34.4	34.6	35.1	35.3	35.5	35.3	35.3
170°	35.1	*35.1*	35.1	35.3	35.5	35.5	35.8	35.8	36.0	36.0	36.0
172.5°	36.9	*36.9*	36.9	36.9	36.7	36.7	36.7	36.7	36.9	36.7	36.9
175°	39.0	*39.0*	39.0	38.7	38.5	38.5	38.3	38.3	38.0	37.8	37.8
177.5°	39.2	*39.2*	39.2	39.2	39.0	38.7	38.7	38.5	38.3	38.3	38.3
180°	38.3	*38.3*	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	14.0	13.5	12.4	11.5	10.8	9.9	9.2	8.5	8.0	7.8	7.6
5°	18.3	17.4	16.0	14.7	13.5	11.9	11.0	9.4	8.3	7.8	7.6
7.5°	24.1	23.4	22.7	22.5	22.0	19.9	17.0	14.7	14.2	13.8	14.2
10°	30.7	29.3	27.3	28.4	28.4	24.5	20.4	18.1	17.9	18.8	19.0
12.5°	36.9	35.1	32.5	32.3	29.8	24.5	20.2	17.9	17.6	17.9	18.1
15°	42.6	40.6	37.8	35.5	31.6	26.1	21.1	18.1	17.4	18.1	18.1
17.5°	45.8	43.8	39.9	35.5	30.9	25.9	20.9	17.6	16.0	15.1	15.1
20°	49.7	48.1	42.9	37.4	31.2	25.7	20.6	17.2	15.4	14.4	14.2
22.5°	53.2	51.3	45.6	39.7	32.5	25.7	19.9	17.0	15.4	14.4	14.2
25°	57.3	54.5	48.8	42.2	33.7	25.7	19.9	17.2	15.6	14.7	14.4
27.5°	60.0	56.8	51.3	44.0	35.1	26.1	20.6	17.4	15.6	14.7	14.7
30°	62.8	59.8	53.4	46.5	36.7	27.3	21.8	18.3	16.3	15.1	15.1
32.5°	68.3	64.4	56.6	48.6	38.0	28.2	22.9	19.3	17.0	15.8	15.8
35°	80.7	75.2	65.8	54.5	39.9	29.1	24.1	20.4	17.4	16.0	16.0
37.5°	99.5	92.6	81.1	65.8	44.5	30.5	25.0	20.9	17.9	16.7	16.5
40°	111.8	103.4	89.6	74.7	51.1	32.8	26.1	21.5	18.3	17.0	16.7
42.5°	126.7	116.4	98.1	77.5	54.5	37.6	28.4	22.7	19.0	17.2	17.0
45°	140.3	131.6	114.4	90.5	64.4	44.7	32.5	24.8	20.2	17.9	17.6
47.5°	167.8	154.2	131.3	106.8	76.8	55.5	39.7	28.0	22.0	18.8	18.3
50°	221.4	207.4	179.7	141.6	99.2	70.6	51.1	33.9	24.3	19.7	19.0
52.5°	300.7	275.0	244.1	192.8	140.7	102.0	72.4	47.9	28.9	20.6	19.5
55°	406.8	392.1	337.4	272.1	200.5	152.6	111.4	74.5	43.1	21.8	19.7
57.5°	528.5	499.4	449.4	368.1	268.2	194.4	150.6	110.9	63.5	25.4	20.9
60°	606.9	576.6	519.3	437.1	326.4	231.7	171.7	123.5	72.0	26.1	21.8
62.5°	657.6	615.2	542.5	446.2	343.3	247.1	181.3	117.3	61.4	25.4	22.5
65°	*665.3*	*619.3*	*542.5*	*433.6*	*328.0*	*234.5*	*175.3*	*108.4*	*48.4*	*24.3*	*23.4*
67.5°	619.3	569.3	505.6	397.6	294.3	201.0	150.6	88.5	36.7	23.6	23.1
70°	501.5	470.1	412.1	324.1	234.9	164.6	119.9	67.8	29.8	22.9	22.7
72.5°	383.2	360.5	320.0	252.6	181.1	127.0	91.4	53.4	26.8	22.5	22.2
75°	305.1	284.4	251.4	194.6	138.2	97.9	68.3	41.0	24.5	22.5	22.0
77.5°	251.7	233.5	203.8	154.2	100.8	73.1	51.8	33.2	24.1	22.5	22.2
80°	193.7	180.6	158.4	112.1	72.2	54.8	41.3	29.6	24.1	22.9	22.7
82.5°	137.3	132.2	115.5	87.3	60.7	47.7	38.0	29.1	24.5	23.4	23.1
85°	114.1	108.2	96.3	76.1	56.6	46.1	37.6	29.8	25.7	24.8	24.5
87.5°	110.0	106.1	94.4	73.6	54.3	44.0	36.0	29.1	25.7	25.2	25.4
90°	99.5	95.1	86.2	68.5	52.0	43.8	36.7	30.3	26.6	26.1	25.9
92.5°	90.3	87.8	80.0	66.2	53.6	45.4	38.7	33.0	30.0	29.1	29.1
95°	77.2	74.7	70.4	60.7	51.1	44.5	38.7	33.7	31.2	30.7	30.5
97.5°	65.8	64.2	60.5	52.9	45.4	39.9	34.8	30.9	28.9	28.2	28.2
100°	60.0	58.7	55.7	50.7	44.9	40.3	36.2	32.8	30.9	30.5	30.5
102.5°	55.9	54.8	52.0	48.4	43.3	39.7	36.2	33.2	31.2	30.7	30.9
105°	52.5	51.3	48.6	44.9	40.8	36.9	34.4	32.1	29.8	29.1	29.1
107.5°	50.0	48.8	46.5	42.9	39.4	36.0	33.2	31.4	29.6	29.1	29.1
110°	51.1	49.5	46.1	42.2	39.2	36.2	33.9	32.1	30.7	30.0	30.0

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

Scaled Data Report

REPORT NUMBER: P1045794
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	59.8	57.3	51.6	46.1	42.2	38.7	36.2	33.7	32.5	31.6	31.6
115°	65.5	63.0	57.3	50.7	44.9	40.1	36.7	34.6	33.2	34.1	33.7
117.5°	59.8	58.0	53.6	48.8	44.2	40.1	37.1	35.8	34.8	36.0	36.4
120°	65.8	62.3	58.9	53.4	44.9	39.2	37.1	36.7	36.7	35.8	35.8
122.5°	94.0	88.2	75.4	66.0	54.3	47.9	44.0	40.3	36.7	35.3	35.1
125°	131.6	120.8	104.5	88.0	72.0	58.4	47.2	40.3	36.9	34.8	34.4
127.5°	138.4	129.0	114.1	94.2	72.4	57.1	47.0	41.7	37.8	35.5	35.3
130°	116.9	112.3	99.0	81.8	65.1	53.2	46.5	41.7	38.0	36.0	35.5
132.5°	99.2	96.0	83.7	69.9	58.0	49.3	43.3	38.0	34.6	32.8	32.3
135°	85.3	83.2	72.4	62.6	53.6	46.5	40.3	35.3	32.5	31.4	31.2
137.5°	73.1	71.0	63.7	56.8	50.0	43.8	38.7	34.4	31.9	31.2	30.9
140°	65.5	63.7	59.1	51.8	45.2	38.7	35.1	32.3	30.9	30.5	30.3
142.5°	57.1	55.0	50.0	44.7	40.1	35.1	32.5	31.4	30.7	30.3	30.0
145°	54.1	52.7	47.0	42.2	37.8	35.3	33.9	32.3	30.9	30.0	29.8
147.5°	54.8	53.2	48.1	43.5	39.7	36.9	34.6	32.3	30.5	29.6	29.3
150°	49.0	48.6	45.6	41.9	38.3	35.3	33.0	31.2	30.0	29.8	29.8
152.5°	41.0	40.8	39.4	37.4	34.8	32.5	30.9	30.0	30.0	30.5	30.7
155°	38.5	37.8	36.9	35.5	33.5	31.9	30.7	30.3	30.5	30.9	30.9
157.5°	37.1	36.4	35.5	34.4	33.2	31.9	30.9	30.7	31.2	31.6	31.6
160°	35.3	34.8	34.1	33.0	32.1	31.4	30.9	30.9	31.2	31.4	31.4
162.5°	34.1	33.7	33.0	32.3	31.9	31.6	31.4	31.2	31.4	31.6	31.6
165°	34.1	33.9	33.0	32.3	32.1	32.1	32.1	32.1	32.1	31.9	31.9
167.5°	35.1	34.8	34.1	33.7	33.5	33.7	33.7	33.5	33.2	32.8	32.8
170°	36.0	35.8	35.5	35.3	35.1	35.3	35.3	35.3	35.1	35.1	34.8
172.5°	36.9	36.7	36.4	36.2	36.2	36.2	36.4	36.7	36.7	36.7	36.7
175°	37.8	37.8	37.4	37.1	37.1	37.1	37.4	37.4	37.6	37.6	37.6
177.5°	38.3	38.3	38.3	38.3	38.5	38.3	38.3	38.0	38.0	38.0	38.0
180°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3

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: SP1-2501-332-8

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Data in this report applies to families of products including FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

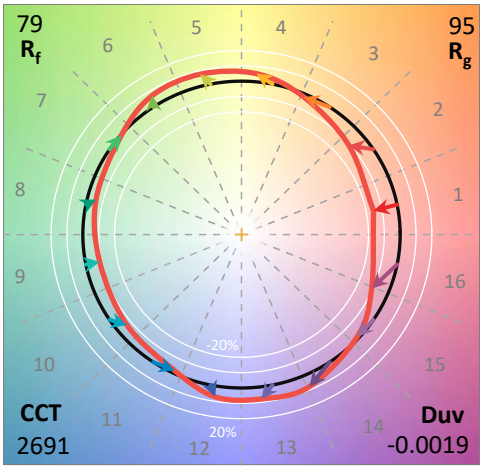
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

0

Spectral Parameters

CCT (K):	2691	CRI (Ra):	75.2		
CIE u':	0.2634	R1:	72.6	R9:	-22.6
CIE v':	0.5248	R2:	88.2	R10:	75.5
Duv:	-0.0019	R3:	92.0	R11:	69.1
CIE x:	0.4574	R4:	71.0	R12:	71.3
CIE y:	0.4050	R5:	73.5	R13:	75.9
CIE z:	0.1375	R6:	86.2	R14:	95.9
Peak Wavelength (nm):	602	R7:	75.1	R15:	63.7
Dominant Wavelength (nm):	584	R8:	43.1		
Purity:	58.87605				

Rf:	79.3
Rg:	95.1



Test Conditions

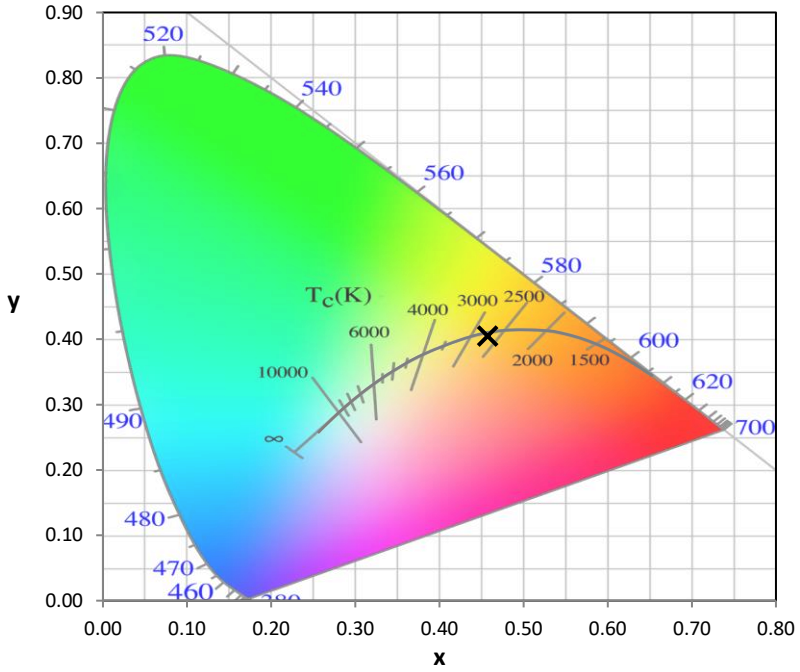
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

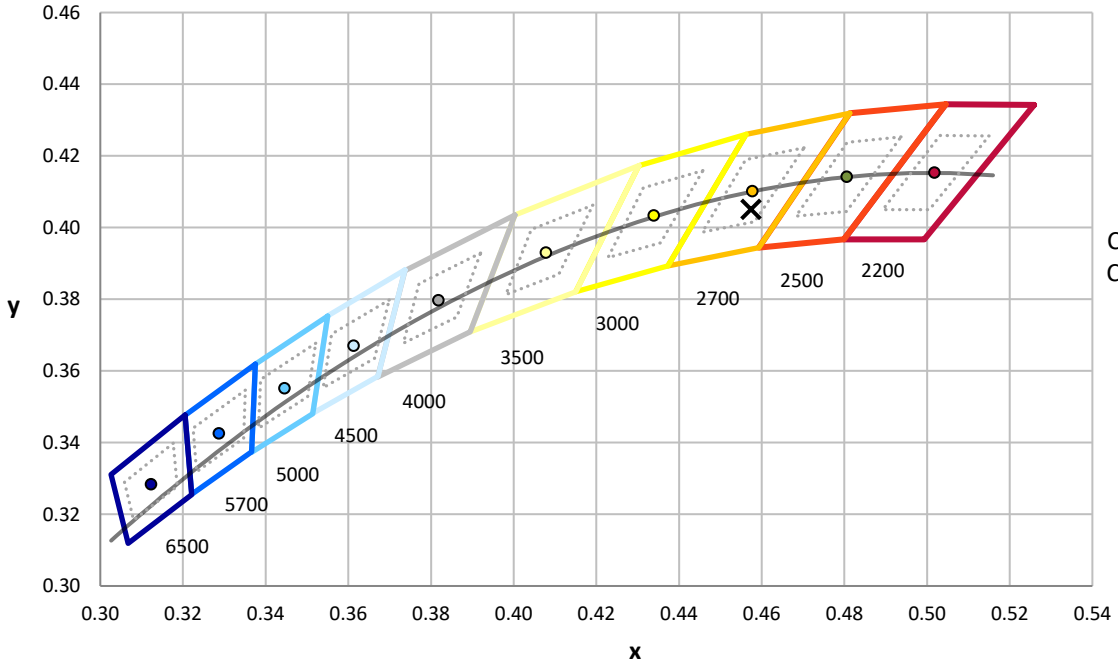
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-8

CIE 1931 Chromaticity Diagram



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

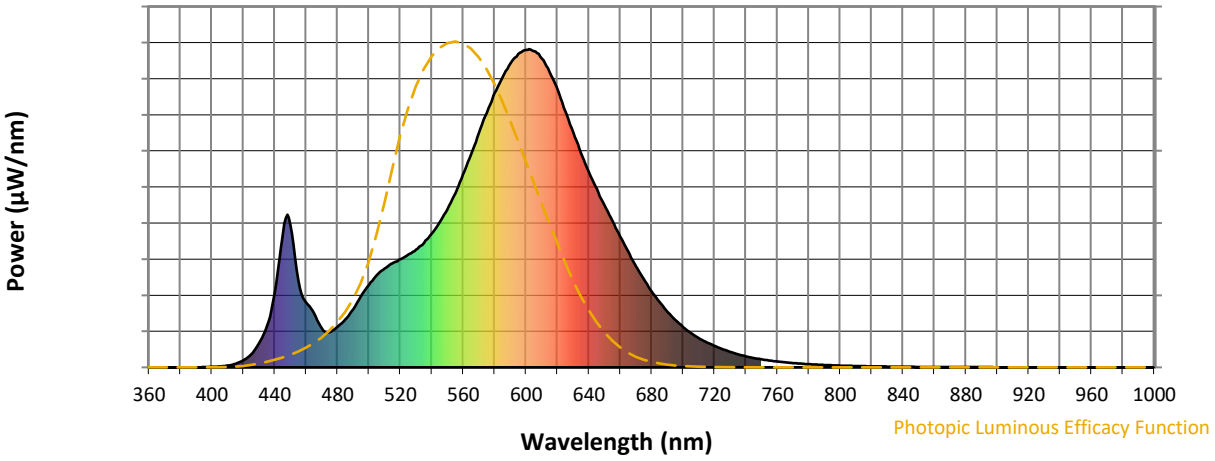


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

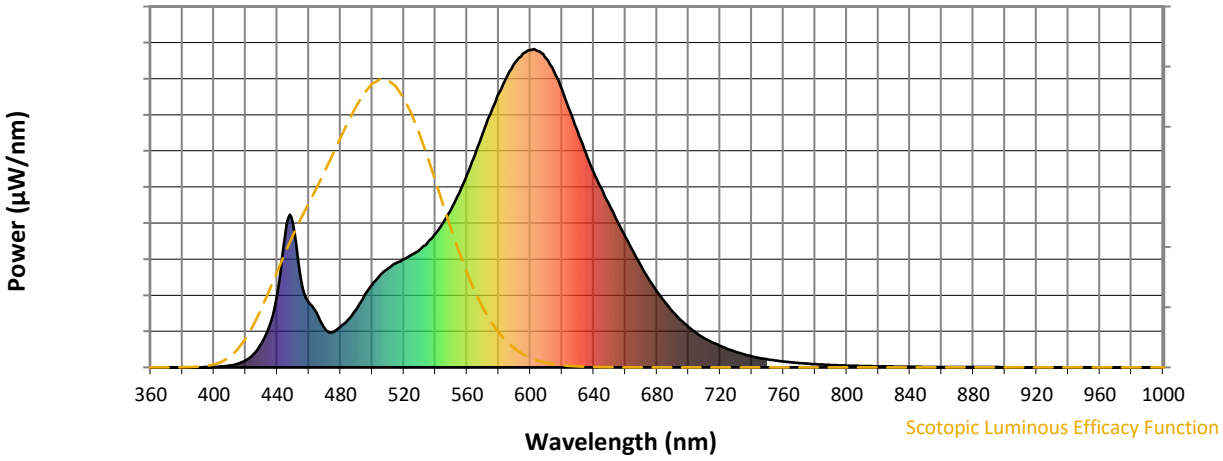


Photopic Lumens: NR

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Scotopic Flux vs. Wavelength

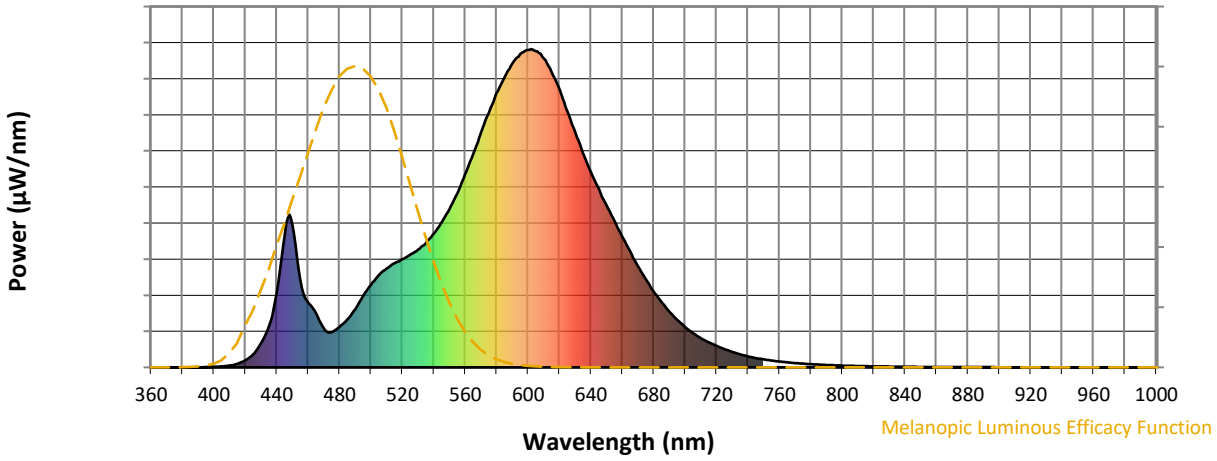


Scotopic Lumens: NR **S/P: 1.18**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-8

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.19**

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	184	NR	620	874	NR	750	25	NR	880	1	NR
365	0	NR	495	224	NR	625	806	NR	755	21	NR	885	1	NR
370	0	NR	500	260	NR	630	739	NR	760	18	NR	890	1	NR
375	0	NR	505	290	NR	635	674	NR	765	16	NR	895	1	NR
380	0	NR	510	311	NR	640	614	NR	770	14	NR	900	0	NR
385	0	NR	515	327	NR	645	561	NR	775	12	NR	905	0	NR
390	0	NR	520	340	NR	650	509	NR	780	10	NR	910	0	NR
395	1	NR	525	354	NR	655	459	NR	785	9	NR	915	0	NR
400	2	NR	530	370	NR	660	411	NR	790	7	NR	920	0	NR
405	3	NR	535	391	NR	665	364	NR	795	6	NR	925	0	NR
410	6	NR	540	420	NR	670	318	NR	800	6	NR	930	0	NR
415	11	NR	545	456	NR	675	276	NR	805	5	NR	935	0	NR
420	22	NR	550	497	NR	680	239	NR	810	4	NR	940	0	NR
425	42	NR	555	547	NR	685	205	NR	815	4	NR	945	0	NR
430	75	NR	560	607	NR	690	175	NR	820	3	NR	950	0	NR
435	129	NR	565	670	NR	695	149	NR	825	3	NR	955	0	NR
440	233	NR	570	736	NR	700	127	NR	830	2	NR	960	0	NR
445	414	NR	575	800	NR	705	108	NR	835	2	NR	965	0	NR
450	449	NR	580	861	NR	710	91	NR	840	2	NR	970	0	NR
455	274	NR	585	911	NR	715	78	NR	845	2	NR	975	0	NR
460	204	NR	590	955	NR	720	68	NR	850	1	NR	980	0	NR
465	170	NR	595	984	NR	725	57	NR	855	1	NR	985	0	NR
470	121	NR	600	998	NR	730	49	NR	860	1	NR	990	0	NR
475	111	NR	605	994	NR	735	41	NR	865	1	NR	995	0	NR
480	128	NR	610	971	NR	740	34	NR	870	1	NR	1000	0	NR
485	151	NR	615	928	NR	745	29	NR	875	1	NR			

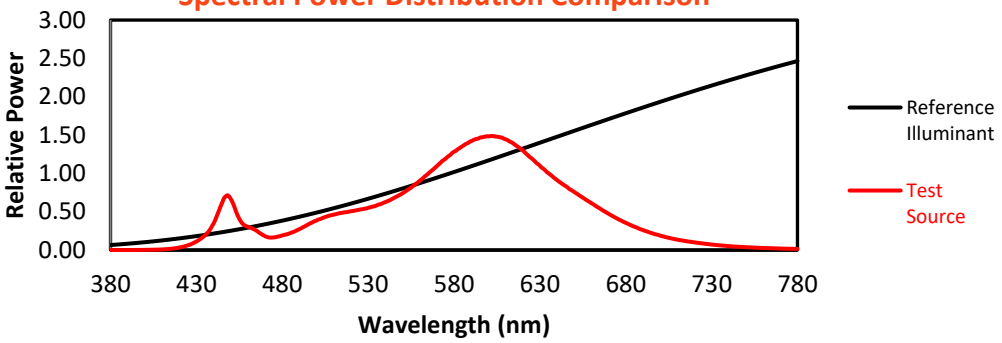
REPORT NUMBER: SP1-2501-332-8

TM-30-18

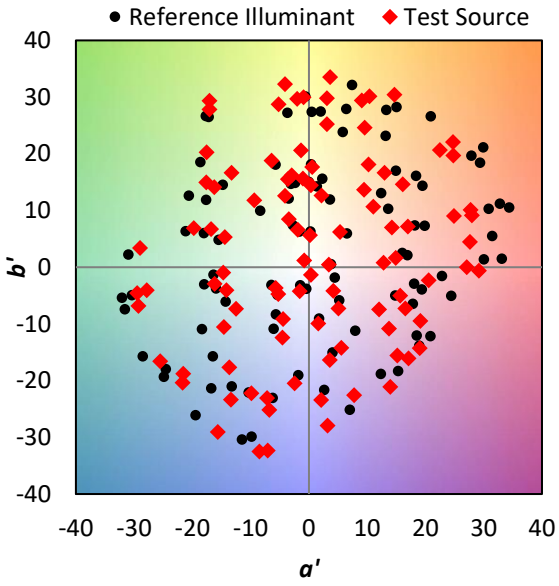
Summary

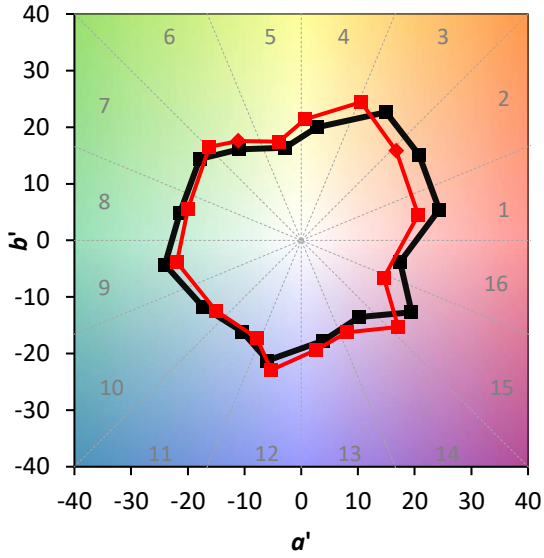
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

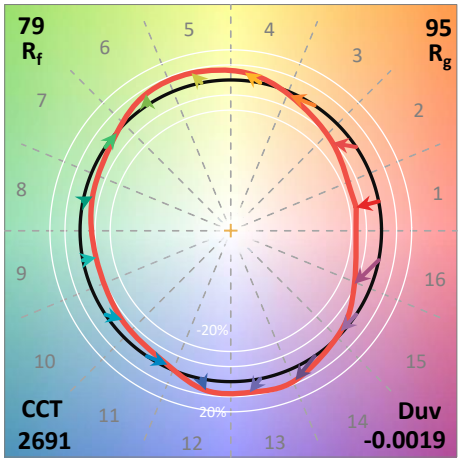
Spectral Power Distribution Comparison

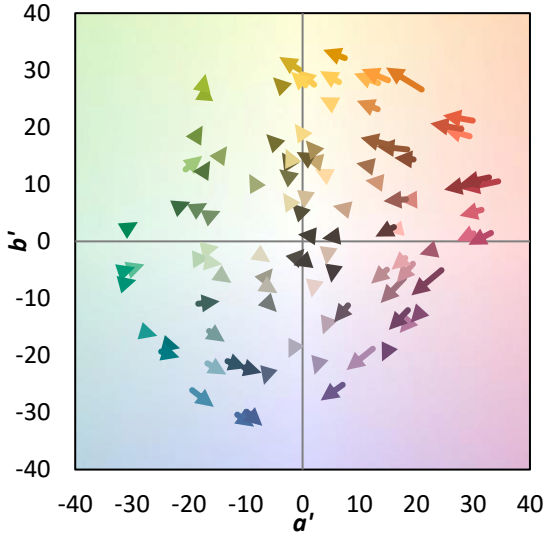


Color Vector Graphics







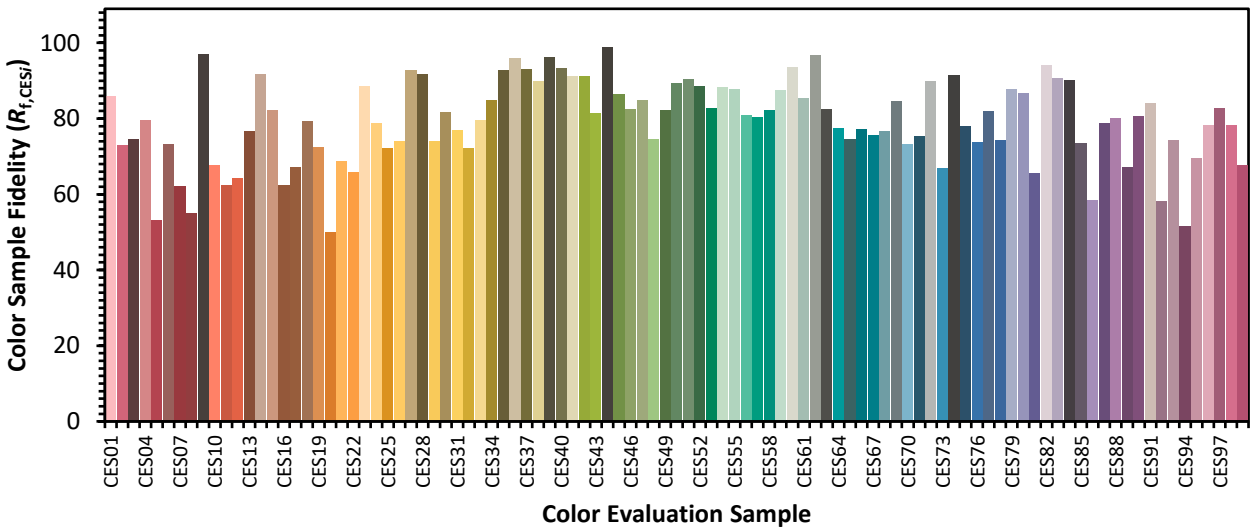


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

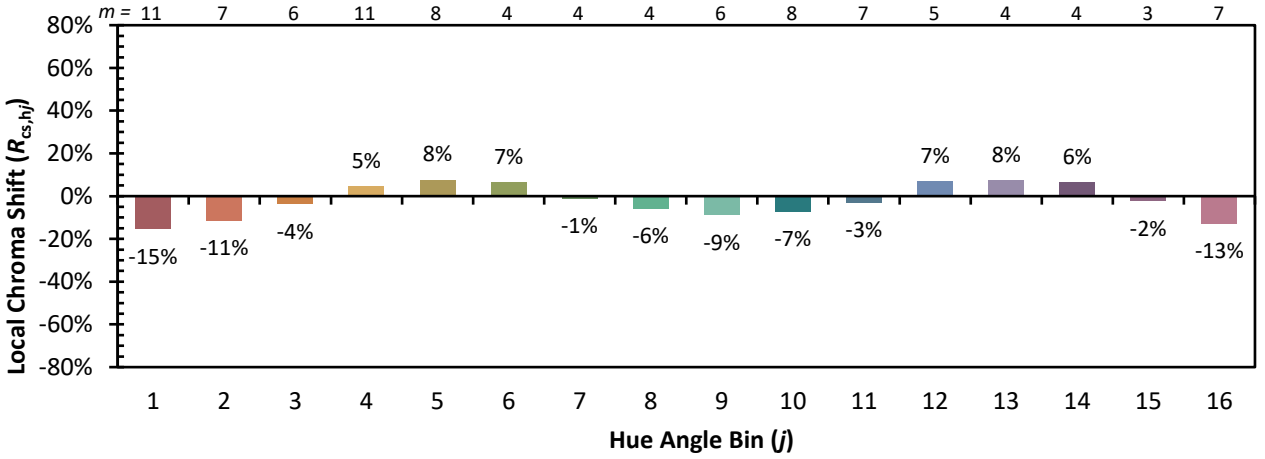
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 80	CES82 = 94
CES08 = 41	CES33 = 80	CES58 = 82	CES83 = 91
CES09 = 29	CES34 = 85	CES59 = 88	CES84 = 90
CES10 = 77	CES35 = 93	CES60 = 94	CES85 = 73
CES11 = 60	CES36 = 96	CES61 = 85	CES86 = 58
CES12 = 66	CES37 = 93	CES62 = 97	CES87 = 79
CES13 = 44	CES38 = 90	CES63 = 83	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 77	CES89 = 67
CES15 = 72	CES40 = 93	CES65 = 75	CES90 = 81
CES16 = 48	CES41 = 91	CES66 = 77	CES91 = 84
CES17 = 51	CES42 = 91	CES67 = 76	CES92 = 58
CES18 = 57	CES43 = 82	CES68 = 77	CES93 = 74
CES19 = 73	CES44 = 99	CES69 = 85	CES94 = 52
CES20 = 67	CES45 = 86	CES70 = 73	CES95 = 70
CES21 = 87	CES46 = 83	CES71 = 75	CES96 = 78
CES22 = 80	CES47 = 85	CES72 = 90	CES97 = 83
CES23 = 92	CES48 = 74	CES73 = 67	CES98 = 78
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 68
CES25 = 73	CES50 = 89	CES75 = 78	

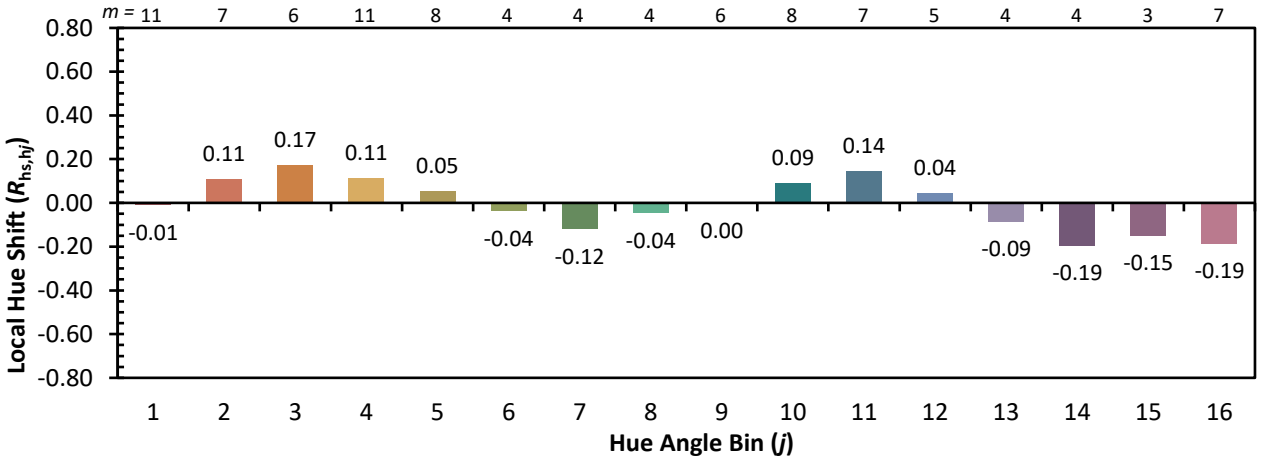


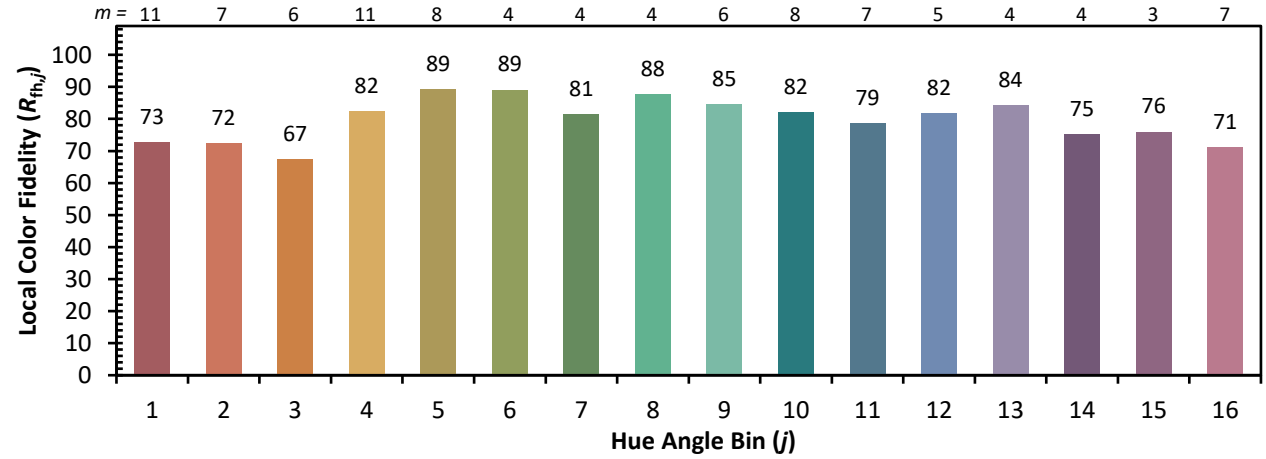
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Color Rendition by Hue-Angle Bin



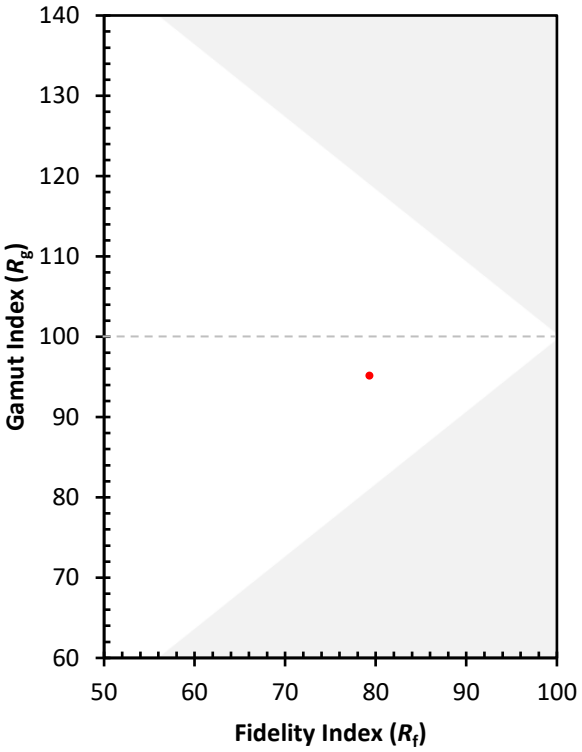


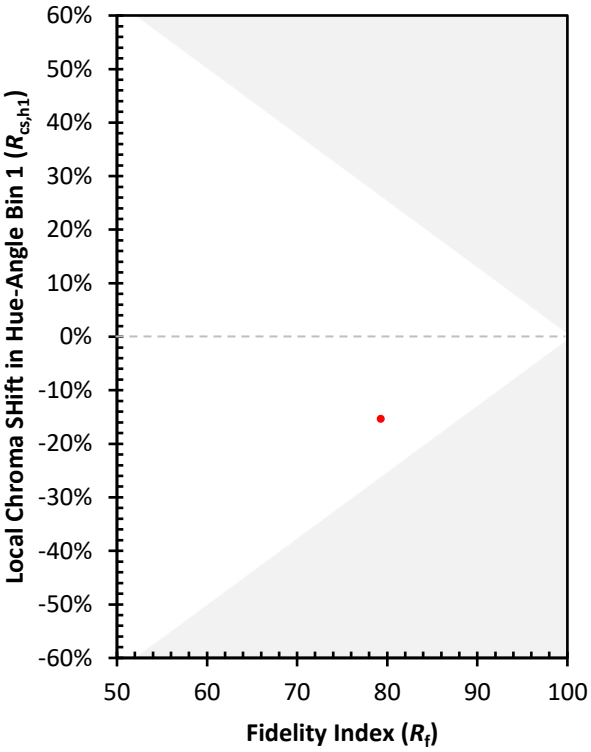


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Measure Comparisons





(END OF REPORT)