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: P1045749

Luminaire Tested: **FFX-CLB-20-727-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:	P1045749
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-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1994.6 lumens
Efficiency:	N/A
Efficacy:	100.7 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

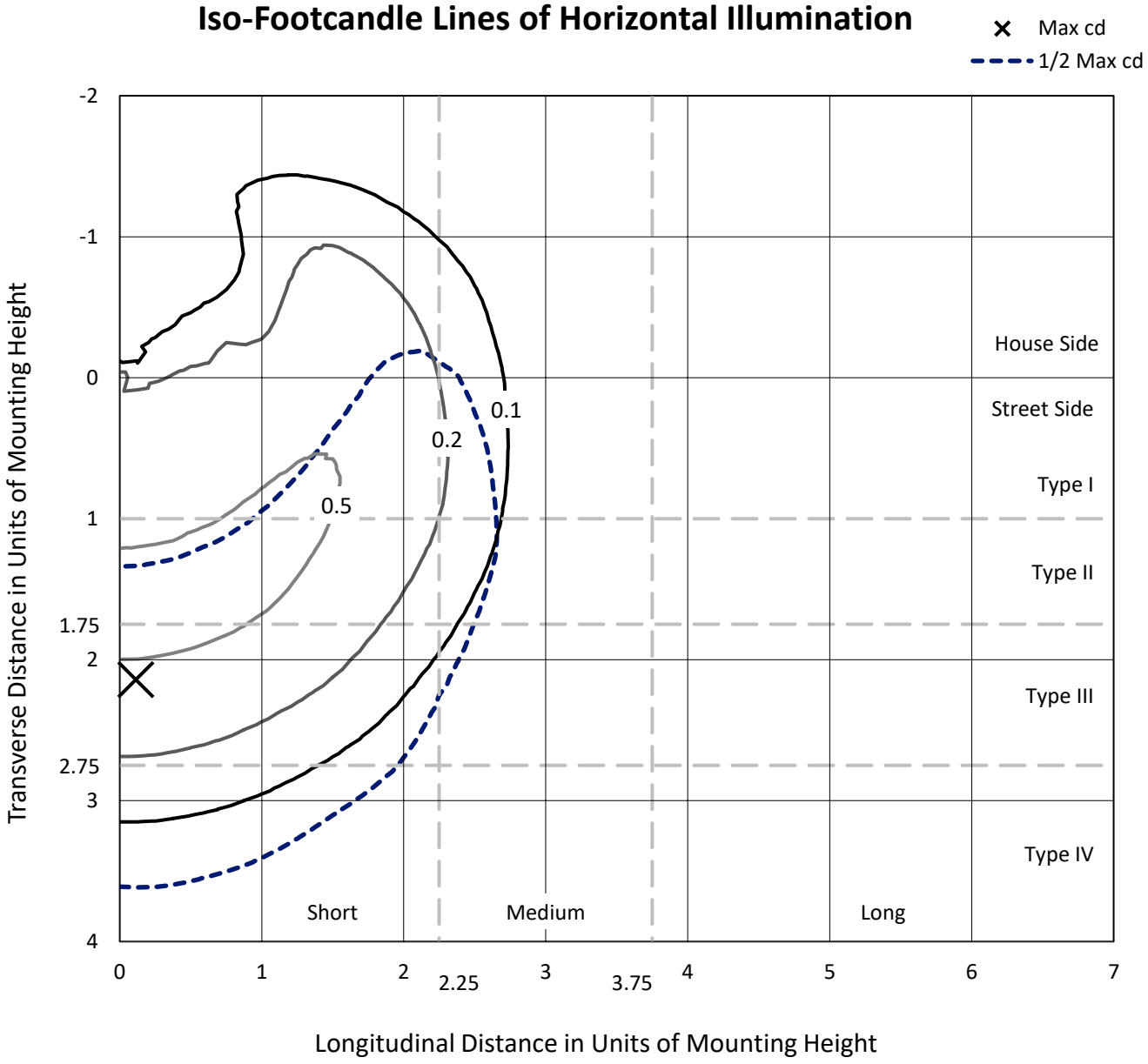


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Iso-Footcandle Lines of Horizontal Illumination



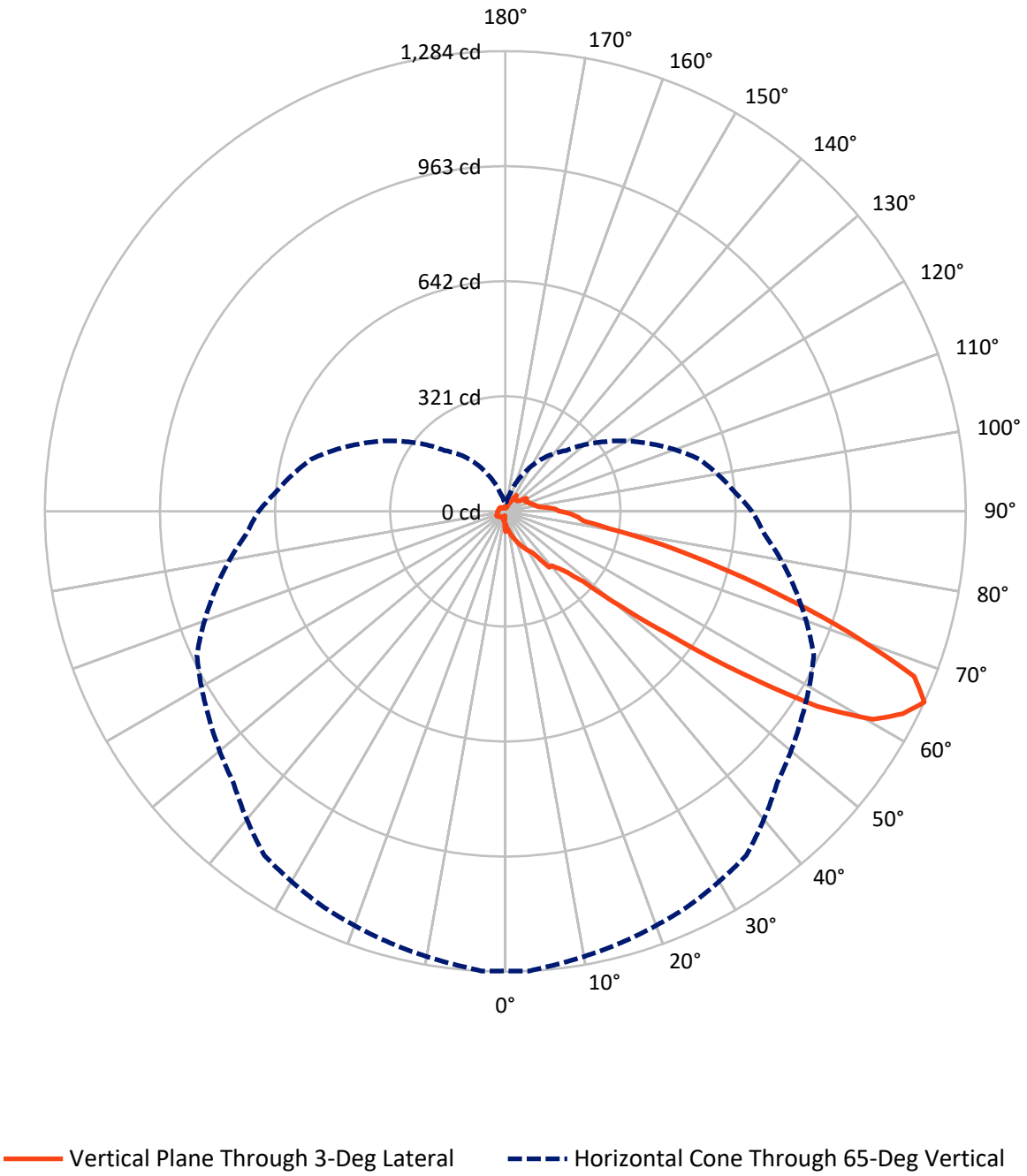
Based on 15 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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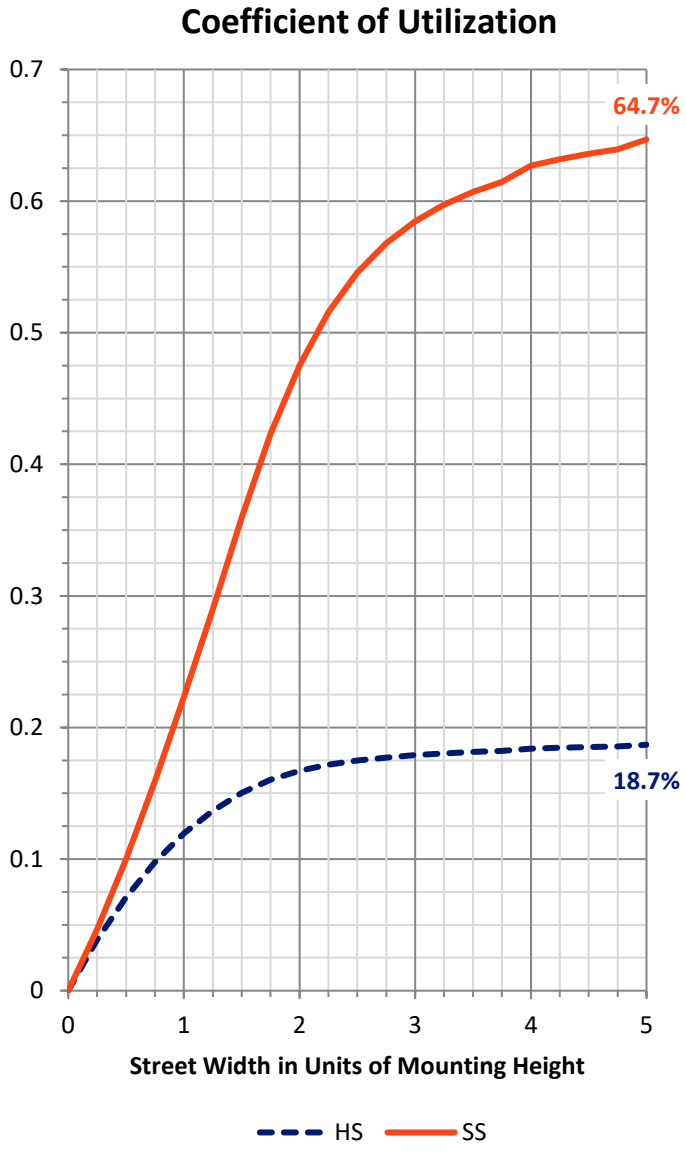
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.9	83.9	469.8
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	1345.7	179.2	1524.8
	% Fixture	67.5	9.0	76.4
Total	Lumens	1731.6	263.1	1994.6
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.2
10°-20°	13.6	0.7
20°-30°	30.3	1.5
30°-40°	61.3	3.1
40°-50°	123.1	6.2
50°-60°	395.1	19.8
60°-70°	630.1	31.6
70°-80°	342.8	17.2
80°-90°	131.7	6.6
90°-100°	78.5	3.9
100°-110°	52.1	2.6
110°-120°	41.5	2.1
120°-130°	34.6	1.7
130°-140°	23.8	1.2
140°-150°	19.2	1.0
150°-160°	8.6	0.4
160°-170°	3.5	0.2
170°-180°	1.2	0.1
0°-90°	1731.6	86.8
0°-180°	1994.6	100.0



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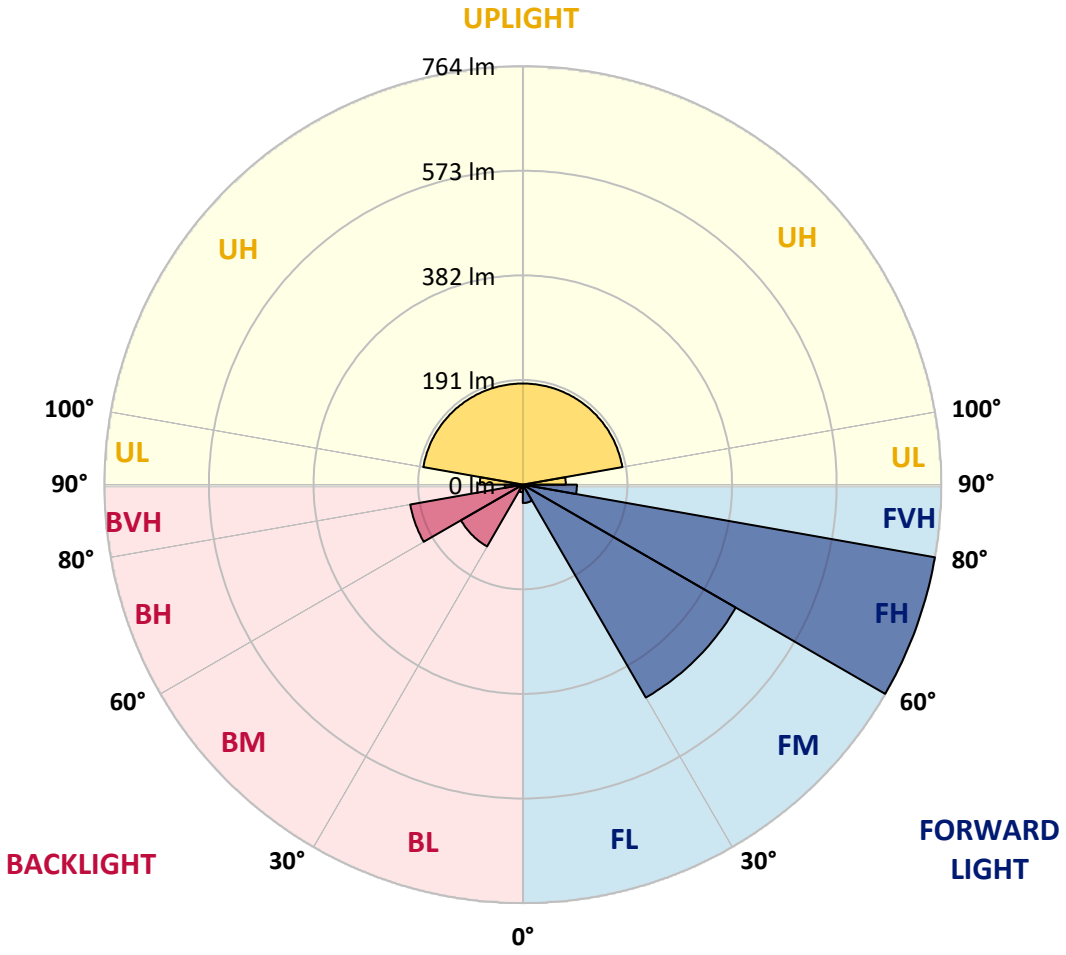
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	33.6	1.7			
FM	(30°-60°)	449.1	22.5			
FH	(60°-80°)	764.2	38.3			G1/1800
FVH	(80°-90°)	98.7	5.0			G1/100
BL	(0°-30°)	13.8	0.7	B0/110		
BM	(30°-60°)	130.4	6.5	B0/220		
BH	(60°-80°)	208.7	10.5	B1/500		G1/500
BVH	(80°-90°)	33.0	1.7			G1/100
UL	(90°-100°)	78.5	3.9		U3/500	
UH	(100°-180°)	184.6	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°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	36.4	36.2	36.9	40.1	48.4	51.1	48.8	44.9	44.2	48.4	51.6
5°	49.7	49.3	48.8	45.6	42.4	44.0	48.6	49.7	45.1	36.7	31.2
7.5°	50.4	50.0	50.2	50.2	49.5	46.5	43.1	44.7	48.6	43.3	34.1
10°	56.1	55.9	55.9	55.7	55.0	54.1	53.9	50.4	44.5	39.9	38.0
12.5°	65.5	65.5	65.3	65.1	64.4	62.8	60.7	58.0	56.1	50.6	44.9
15°	73.1	72.4	72.9	72.2	71.0	70.1	67.6	64.6	59.1	55.5	50.4
17.5°	80.4	80.4	80.7	79.5	78.1	77.5	74.7	70.8	65.5	59.1	54.3
20°	89.6	88.9	88.9	87.8	86.2	83.9	81.4	77.9	73.6	64.9	58.4
22.5°	98.3	98.5	98.5	96.7	94.2	92.1	88.7	84.6	80.4	71.5	63.3
25°	108.2	107.9	107.7	107.5	105.0	101.3	96.9	92.6	89.6	80.9	69.4
27.5°	117.3	116.9	116.6	117.8	115.5	111.8	105.4	100.1	96.9	88.0	75.2
30°	127.4	127.2	127.2	127.6	126.7	121.0	114.1	107.9	103.4	94.4	80.7
32.5°	136.4	135.9	136.1	138.0	137.7	130.4	124.2	116.6	110.9	103.8	88.7
35°	158.4	157.4	158.8	161.6	163.6	155.8	147.4	135.7	127.0	119.6	104.0
37.5°	198.0	198.2	198.7	195.0	187.2	181.5	177.4	168.0	157.2	144.8	126.5
40°	199.6	199.4	200.5	206.0	209.2	199.4	189.8	178.8	176.0	165.5	142.1
42.5°	218.2	216.8	217.9	223.2	227.6	221.6	213.1	194.6	184.5	175.1	155.8
45°	244.8	243.1	245.2	246.1	245.2	238.8	240.2	225.0	215.6	196.6	169.8
47.5°	285.3	292.7	293.8	294.0	303.2	294.5	289.0	274.5	253.2	230.5	200.1
50°	400.6	412.5	408.4	404.5	405.2	398.5	391.0	371.0	342.4	304.1	260.6
52.5°	571.8	567.2	567.9	570.4	576.8	547.3	534.4	504.4	458.1	412.3	349.5
55°	781.2	789.0	788.6	796.8	795.7	763.8	723.3	672.8	605.5	538.3	464.1
57.5°	1040.2	1026.5	1017.3	1002.2	989.1	945.8	919.0	864.4	775.3	674.4	579.1
60°	1185.5	1177.9	1175.6	1154.8	1136.9	1083.7	1028.5	969.4	899.7	780.6	672.4
62.5°	1240.0	1243.7	1240.5	1227.0	1215.1	1168.5	1075.7	1011.3	949.0	834.4	720.5
65°	1282.0	1284.0	1276.7	1246.0	1213.5	1171.7	1071.8	1008.4	949.2	836.5	725.1
67.5°	1230.6	1230.2	1224.5	1180.2	1125.2	1084.0	993.2	924.9	874.7	780.6	673.1
70°	1021.9	1023.2	1024.4	991.8	931.6	900.9	809.0	750.3	707.0	625.6	548.4
72.5°	800.0	804.2	806.0	780.6	735.9	704.2	642.8	598.8	558.5	493.9	433.1
75°	601.8	605.9	604.8	589.0	557.6	548.9	519.1	481.5	447.8	397.6	346.3
77.5°	451.5	448.0	447.1	431.8	400.8	403.1	394.6	373.1	347.0	317.4	281.7
80°	299.1	296.1	290.1	295.4	292.9	285.5	271.6	260.6	250.3	232.6	213.1
82.5°	220.0	219.1	217.9	214.5	212.2	210.4	204.2	186.5	174.2	164.1	152.4
85°	205.8	203.0	203.5	197.5	190.4	184.0	179.2	171.6	162.0	146.2	129.3
87.5°	179.7	179.7	178.3	174.2	167.1	165.5	162.0	156.8	151.0	138.9	123.8
90°	149.4	148.5	148.5	148.3	146.7	145.5	138.9	134.1	131.5	119.4	108.9
92.5°	138.0	137.5	136.6	135.4	130.9	129.9	123.3	117.1	111.6	104.0	95.8
95°	112.1	113.0	110.9	110.7	108.4	107.0	101.8	98.8	95.1	88.9	81.4
97.5°	94.6	93.3	93.5	91.4	89.1	88.2	85.0	80.7	77.2	72.4	66.9
100°	86.9	86.6	86.2	84.6	81.4	79.3	75.9	71.7	68.3	63.9	59.4
102.5°	81.8	81.6	81.4	80.0	76.3	75.2	72.0	68.8	65.8	61.9	55.9
105°	76.8	76.5	76.1	74.5	72.2	71.0	68.1	66.2	63.3	59.8	54.1
107.5°	72.2	72.2	72.0	70.1	68.8	67.8	64.9	63.3	60.0	57.1	51.6
110°	69.9	69.9	69.7	68.3	65.5	64.2	61.4	59.4	56.4	53.4	49.0

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	67.4	*67.6*	67.6	68.1	61.4	58.9	56.6	55.0	52.5	49.7	46.1
115°	61.6	*61.9*	61.6	63.9	61.6	58.2	56.8	54.1	50.9	46.5	42.6
117.5°	62.1	*62.1*	62.6	63.7	62.6	59.4	56.4	52.9	50.2	45.8	42.4
120°	70.4	*69.9*	69.9	67.6	67.1	64.2	62.1	58.4	53.9	49.5	44.7
122.5°	67.6	*67.4*	67.6	63.9	63.7	63.0	62.3	61.6	55.7	53.2	47.0
125°	54.1	*53.6*	53.4	52.0	54.3	52.7	52.3	53.9	50.0	47.7	44.2
127.5°	48.4	*47.9*	47.7	47.2	48.6	45.8	45.4	45.8	42.9	40.1	38.0
130°	46.3	*45.6*	45.6	47.2	49.3	47.0	44.5	42.6	41.5	39.6	36.2
132.5°	43.8	*43.8*	44.0	46.1	49.7	47.2	42.6	39.0	38.5	38.7	37.1
135°	43.1	*42.9*	43.1	42.4	42.2	40.8	38.7	35.8	35.1	36.9	35.1
137.5°	44.2	*44.0*	43.8	41.9	39.9	38.7	38.3	36.4	34.6	33.5	31.6
140°	43.8	*43.8*	43.5	43.1	41.7	39.4	39.0	37.1	35.3	33.2	30.9
142.5°	44.5	*45.1*	45.6	46.1	45.6	43.1	40.6	37.6	35.5	34.4	31.9
145°	54.8	*54.8*	54.8	53.9	52.3	50.2	48.4	46.3	44.7	41.0	37.6
147.5°	45.4	*45.4*	45.1	45.4	45.4	44.5	44.2	43.5	43.8	41.9	38.5
150°	31.4	*32.1*	32.1	33.2	33.7	33.2	33.2	33.7	33.0	32.8	30.9
152.5°	25.4	*25.2*	24.8	25.2	25.2	25.4	25.4	25.0	24.8	24.8	23.6
155°	22.5	*22.5*	22.5	22.2	21.8	22.0	22.2	22.2	21.5	21.1	20.2
157.5°	17.9	*17.6*	17.6	18.1	18.1	18.1	18.1	18.1	18.1	18.3	18.6
160°	15.1	*14.7*	14.9	14.9	15.1	15.4	15.1	15.4	15.4	15.6	15.4
162.5°	12.4	*12.1*	12.1	12.4	12.6	12.8	13.1	13.1	13.3	13.8	14.0
165°	11.0	*11.0*	11.0	11.2	11.2	11.5	11.7	11.9	12.4	13.1	13.3
167.5°	10.3	*10.3*	10.3	10.3	10.5	10.8	11.2	11.9	12.4	13.1	13.1
170°	10.1	*10.1*	10.3	10.3	10.3	10.5	11.5	12.1	12.4	12.6	12.6
172.5°	10.5	*10.5*	10.5	10.5	10.5	11.0	12.1	12.4	12.4	12.4	12.6
175°	11.0	*11.0*	10.8	10.8	11.0	11.2	11.5	12.6	13.1	13.3	13.8
177.5°	10.3	*10.3*	10.3	10.5	10.5	10.8	11.0	11.5	11.5	11.9	12.6
180°	11.5	*11.5*	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
2.5°	53.9	57.8	52.9	47.9	44.2	46.3	48.6	46.8	44.7	44.9	41.0
5°	32.3	33.2	33.7	29.3	24.3	27.0	33.0	30.9	23.8	13.3	11.5
7.5°	31.2	29.8	29.3	32.5	29.6	19.7	15.4	14.0	18.6	22.2	23.4
10°	36.9	35.3	31.9	26.1	23.1	21.8	21.3	20.4	17.6	13.8	13.1
12.5°	42.4	40.6	37.4	34.6	30.7	25.7	22.5	21.5	23.1	25.9	25.9
15°	47.9	45.4	41.3	37.6	34.6	29.1	25.0	21.3	20.9	21.5	21.5
17.5°	51.8	49.0	44.2	39.2	33.9	28.6	23.8	20.2	18.6	18.1	18.1
20°	55.7	53.2	47.4	41.9	35.5	29.3	23.8	19.9	18.1	17.4	17.2
22.5°	60.7	57.5	51.1	45.1	37.4	29.8	23.6	20.2	18.1	17.0	16.7
25°	66.5	62.8	55.5	48.4	39.2	30.3	23.8	20.4	18.3	17.0	16.7
27.5°	71.0	67.1	60.0	52.0	41.5	31.4	24.8	20.9	18.6	17.2	17.0
30°	76.3	72.2	64.2	55.9	44.2	33.2	26.6	22.2	19.5	17.6	17.6
32.5°	84.3	78.8	69.9	59.6	47.0	35.3	28.6	23.8	20.4	19.0	19.0
35°	97.4	91.9	80.0	66.7	50.0	37.4	30.3	25.4	21.5	19.7	19.7
37.5°	118.3	110.0	96.7	78.4	54.8	39.0	32.1	26.6	22.2	19.7	19.3
40°	130.4	121.2	104.5	87.1	60.7	41.0	33.5	27.5	22.7	19.9	19.7
42.5°	143.9	133.4	111.8	89.4	64.6	45.8	35.5	28.4	23.1	20.6	20.2
45°	158.1	148.0	128.6	101.5	73.8	52.5	39.0	30.3	24.5	21.5	21.1
47.5°	184.0	171.6	146.4	118.7	87.3	63.0	46.5	33.2	26.1	22.5	22.0
50°	242.2	230.8	195.7	154.2	108.9	78.1	58.2	39.4	28.6	23.1	22.5
52.5°	321.1	300.7	261.0	209.0	151.9	109.5	77.7	53.2	32.5	23.8	22.7
55°	435.7	413.0	354.3	286.5	208.1	159.0	117.6	80.0	46.3	24.5	22.5
57.5°	549.6	522.1	472.8	380.0	279.6	202.8	157.2	117.1	67.4	27.5	23.1
60°	631.1	597.7	536.7	451.7	339.2	238.6	177.6	127.6	74.9	28.2	23.8
62.5°	679.3	637.3	560.8	459.3	353.4	253.5	185.9	120.5	64.4	27.5	24.8
65°	*688.0*	*640.3*	*560.8*	*446.2*	*338.7*	*240.4*	*179.7*	*111.4*	*50.9*	*26.4*	*25.4*
67.5°	638.0	593.6	526.4	409.8	300.4	206.5	154.7	91.7	38.7	25.4	25.2
70°	523.7	490.2	435.4	334.8	243.8	168.0	123.1	70.6	31.4	24.3	23.8
72.5°	408.6	377.7	336.7	262.6	188.6	133.1	94.0	55.2	28.0	23.4	23.1
75°	321.5	298.4	264.5	207.4	141.9	100.8	71.3	41.7	25.2	22.9	22.5
77.5°	263.1	248.0	212.9	158.4	105.9	74.9	53.2	33.2	24.1	22.5	22.2
80°	204.6	192.0	170.0	118.5	75.9	56.4	41.9	29.3	23.4	22.2	22.0
82.5°	146.0	141.6	123.1	92.1	63.3	48.4	37.8	28.2	23.1	22.0	21.8
85°	121.9	115.7	102.0	80.0	58.2	46.1	36.2	27.7	23.1	22.0	21.8
87.5°	117.8	112.3	99.7	76.3	54.8	43.3	34.6	26.8	22.7	21.5	21.5
90°	104.0	98.5	88.9	68.8	50.4	40.3	32.3	25.4	21.8	20.6	20.6
92.5°	92.1	88.9	79.8	63.0	48.4	38.7	31.2	24.8	21.3	20.4	20.2
95°	77.9	75.2	68.1	56.8	45.4	36.9	30.3	24.1	20.9	19.9	19.9
97.5°	64.6	62.3	56.8	48.1	39.2	32.8	27.3	22.7	20.2	19.5	19.5
100°	57.1	55.2	50.4	43.3	36.2	30.7	26.4	22.5	19.9	19.0	19.0
102.5°	54.1	52.3	47.4	41.0	34.4	29.3	25.7	22.0	19.7	18.8	18.6
105°	51.8	50.0	45.6	39.0	32.5	28.0	24.3	21.5	19.3	18.6	18.3
107.5°	49.5	47.4	43.3	36.7	30.9	26.6	23.4	20.9	19.0	18.3	18.3
110°	47.0	45.1	41.3	34.8	29.8	25.7	22.9	20.6	19.0	18.3	18.3

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

Scaled Data Report

REPORT NUMBER: P1045749
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	44.2	42.4	38.7	33.0	28.6	25.0	22.5	20.4	19.0	18.3	18.3
115°	41.0	39.4	36.0	31.2	27.3	24.1	21.8	19.9	18.6	18.1	18.1
117.5°	40.1	38.3	34.8	30.5	26.8	23.4	21.3	19.5	18.3	17.9	17.9
120°	42.2	39.6	36.0	31.9	26.8	22.9	20.9	19.3	18.1	17.6	17.6
122.5°	44.9	42.9	38.7	31.2	25.9	22.5	20.4	19.0	17.9	17.6	17.6
125°	42.4	41.0	37.1	28.9	25.0	22.0	20.2	19.0	18.1	17.6	17.6
127.5°	37.1	35.8	32.8	27.5	24.1	21.5	19.9	19.0	18.3	17.6	17.6
130°	35.1	33.2	30.5	26.4	23.1	20.9	19.7	19.0	18.3	17.4	17.2
132.5°	36.0	34.4	30.0	24.8	21.8	19.9	19.0	18.6	17.2	16.3	16.0
135°	33.9	32.3	28.0	23.6	21.1	19.7	18.8	17.4	16.0	14.9	14.9
137.5°	30.3	28.4	25.9	22.7	20.9	20.2	19.0	17.2	15.4	14.4	14.4
140°	30.0	28.0	25.7	22.5	20.4	18.6	17.2	15.4	14.0	13.5	13.3
142.5°	30.5	29.1	25.9	22.2	19.5	17.2	15.6	14.2	13.3	12.6	12.6
145°	35.3	33.2	29.1	24.3	21.1	18.3	16.0	14.2	12.8	11.7	11.5
147.5°	36.4	34.4	30.7	26.6	22.5	19.0	15.8	13.5	11.7	10.8	10.5
150°	30.5	29.1	27.0	23.8	20.2	16.7	14.0	11.9	10.8	10.3	10.1
152.5°	23.1	22.7	21.3	19.0	16.5	14.2	12.4	11.2	10.5	10.3	10.1
155°	19.7	19.5	18.1	16.3	14.2	12.6	11.5	10.8	10.3	10.3	10.1
157.5°	18.3	17.9	16.7	14.9	13.1	12.1	11.0	10.5	10.3	10.3	10.3
160°	15.4	14.9	14.0	13.3	12.1	11.5	10.8	10.5	10.3	10.3	10.1
162.5°	13.8	13.3	12.8	12.1	11.9	11.7	11.5	11.0	10.8	10.5	10.5
165°	13.1	12.8	12.1	11.9	11.9	12.1	12.1	11.7	11.2	10.8	10.8
167.5°	12.8	12.6	12.1	11.9	12.4	12.6	12.8	12.4	11.9	11.2	11.0
170°	12.8	12.8	12.6	12.4	12.6	12.8	13.1	13.1	12.8	12.4	12.4
172.5°	12.8	13.1	12.8	12.8	12.8	12.8	12.8	13.3	13.3	13.1	13.1
175°	13.8	13.8	13.1	12.8	13.1	13.3	13.5	13.3	13.3	13.5	13.5
177.5°	12.6	13.1	14.0	14.2	14.7	14.7	14.2	14.0	13.3	13.1	13.1
180°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5

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

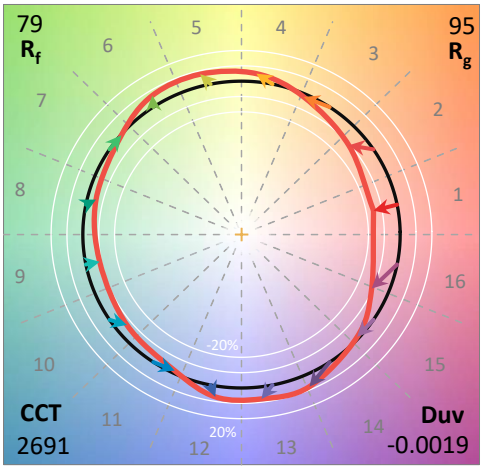
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

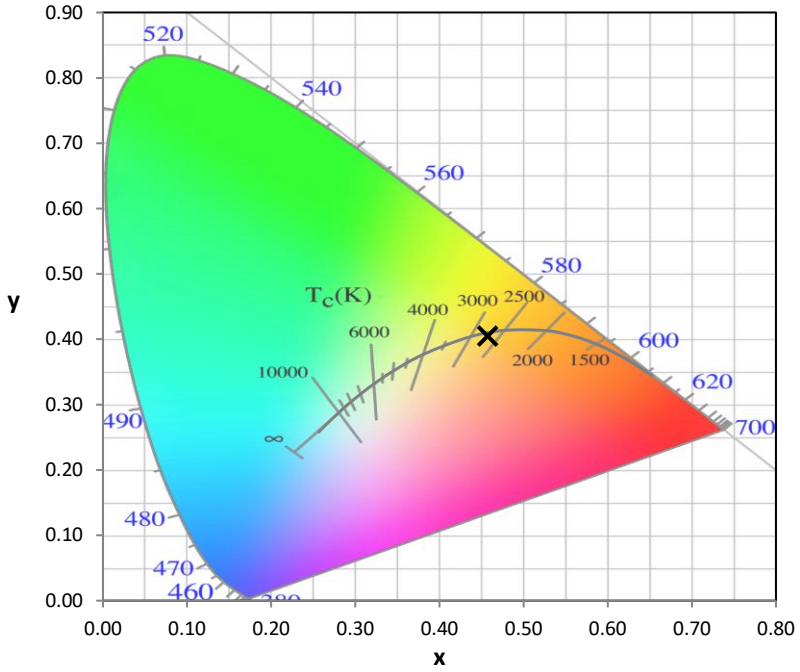
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

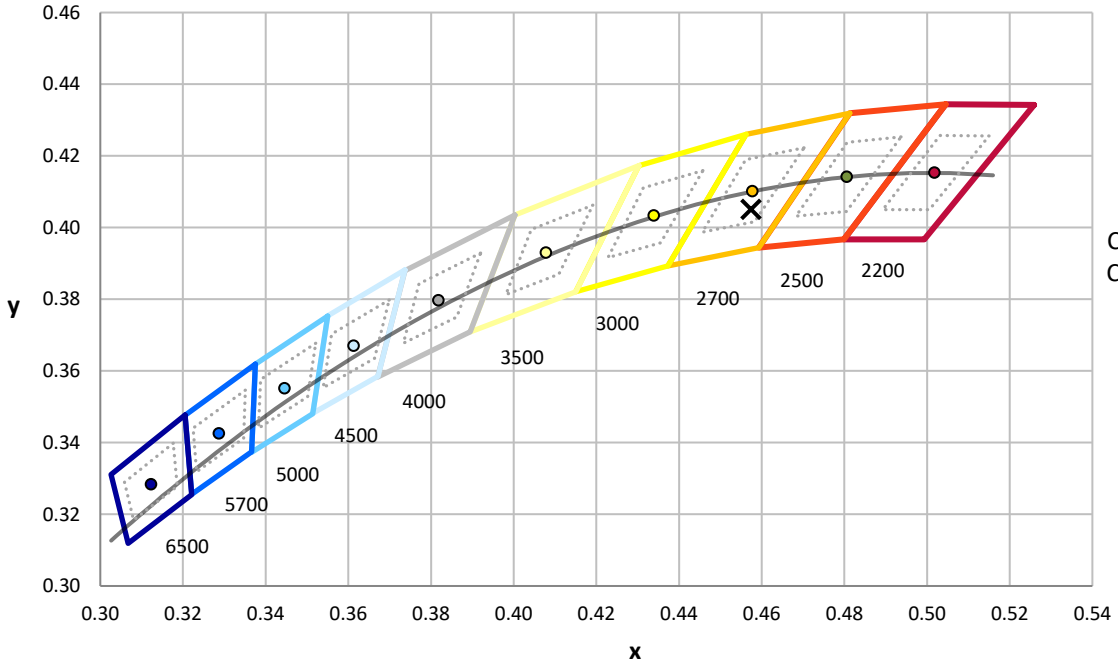
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

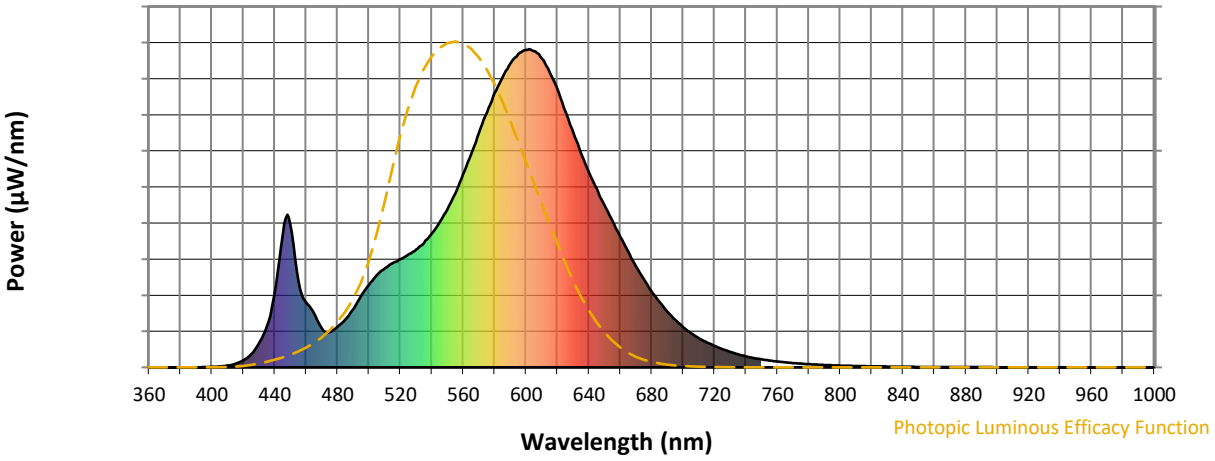


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

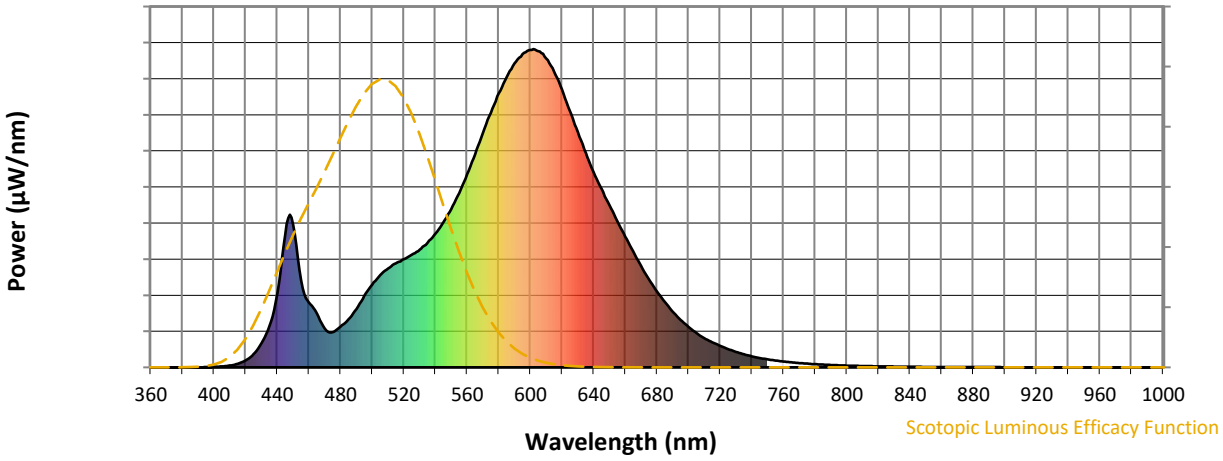


Photopic Lumens: NR

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

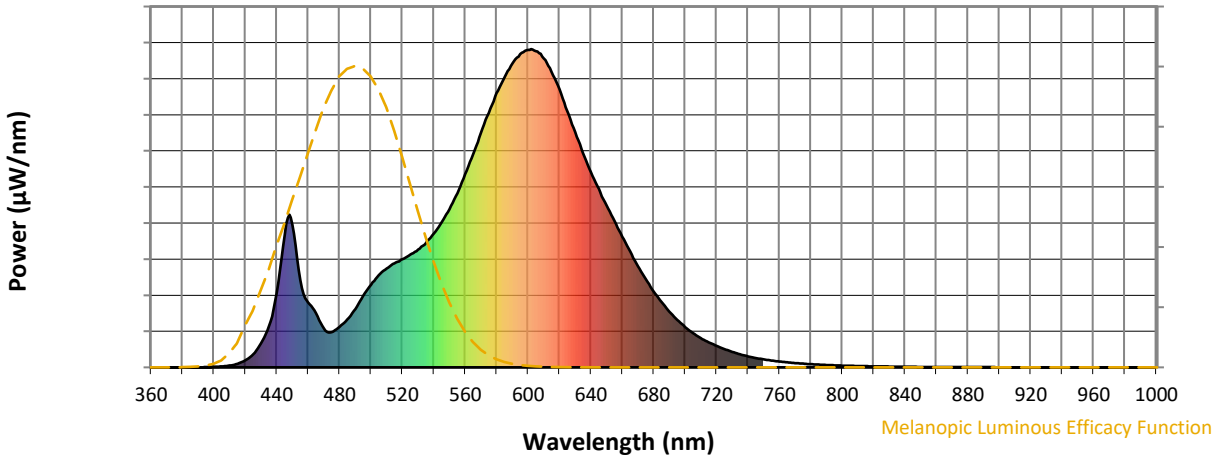


Scotopic Lumens: NR **S/P: 1.18**

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			

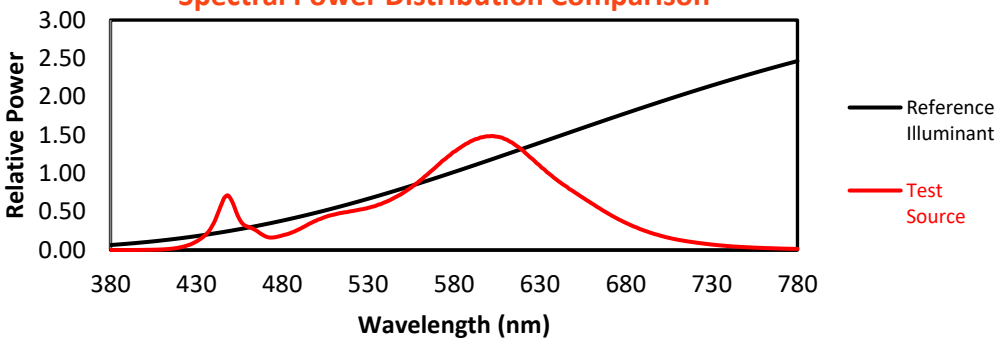
REPORT NUMBER: SP1-2501-332-8

TM-30-18

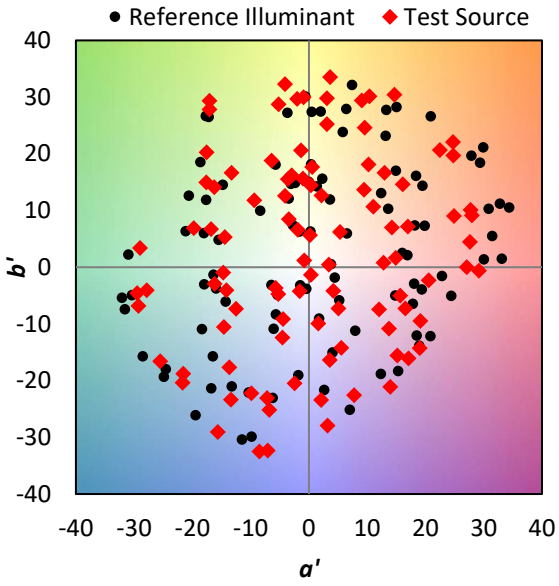
Summary

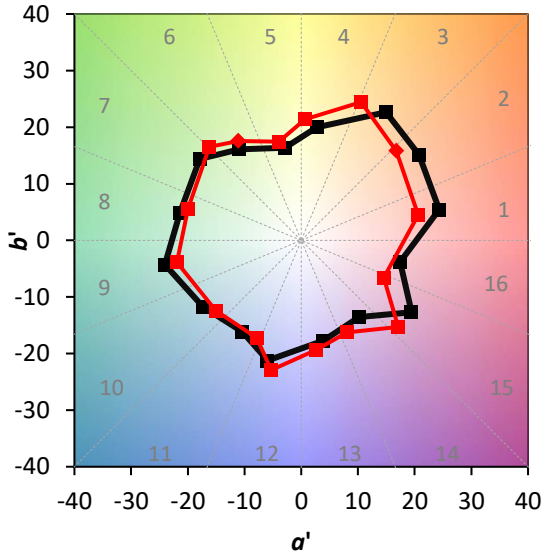
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

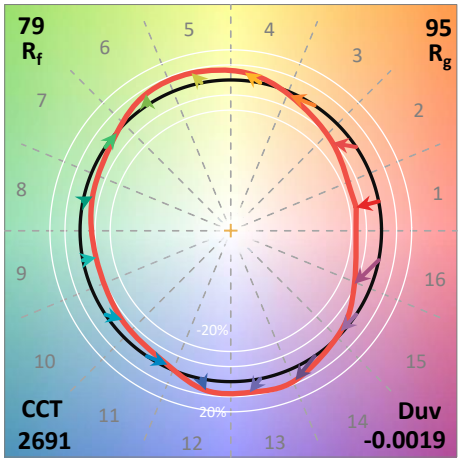
Spectral Power Distribution Comparison

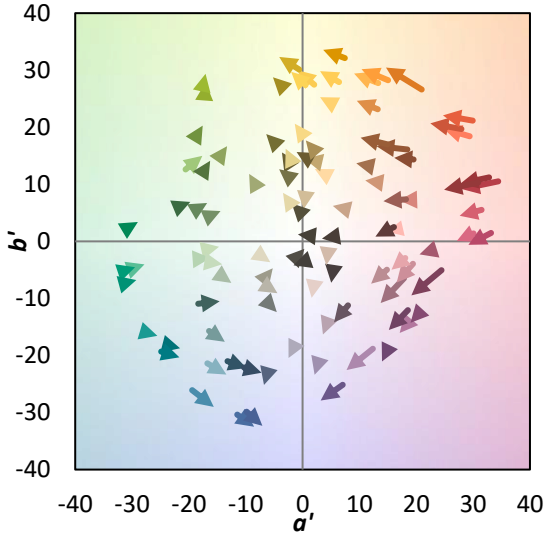


Color Vector Graphics







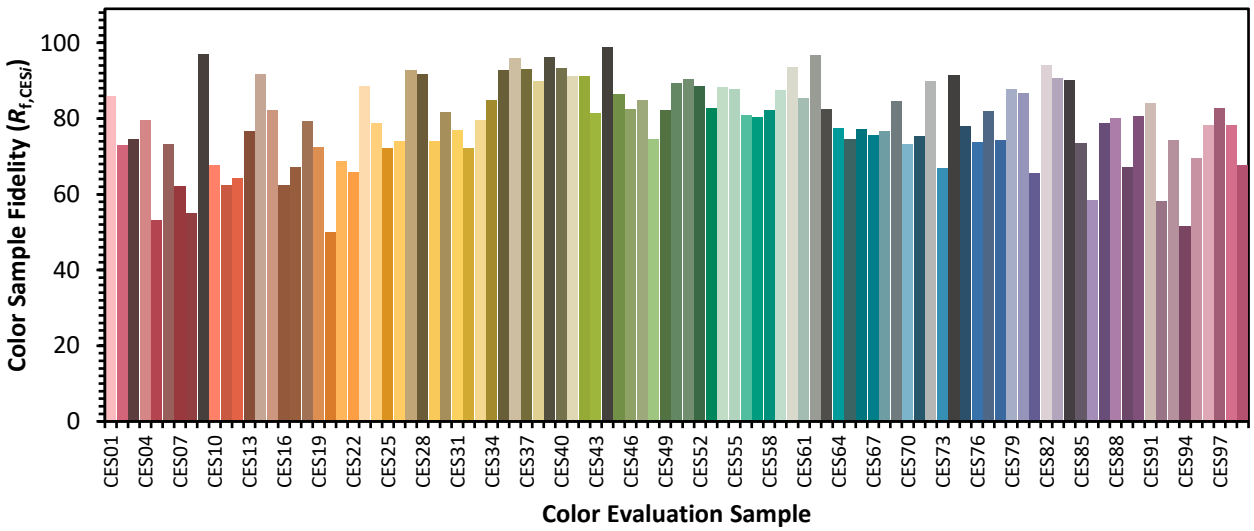


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

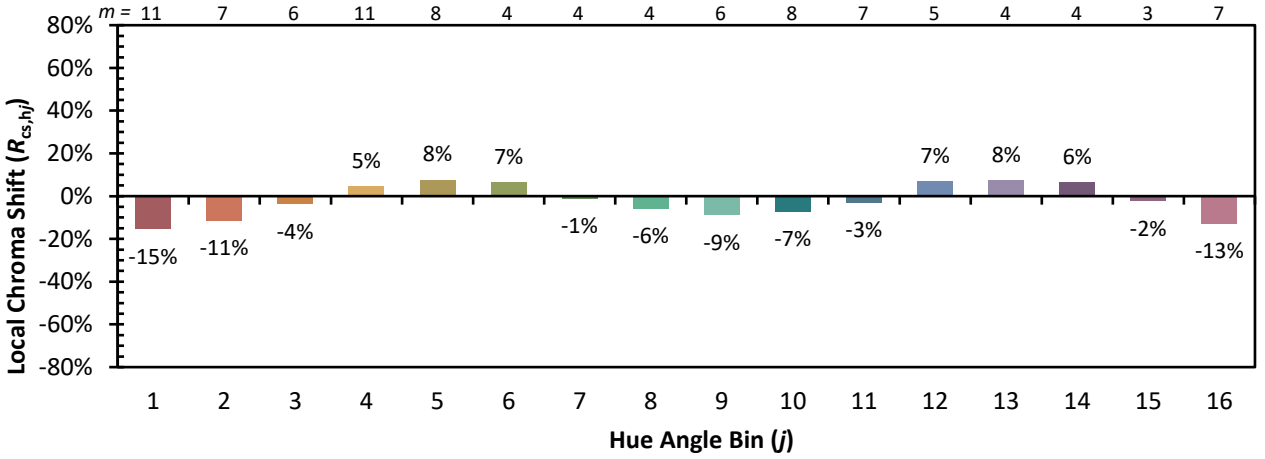
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57 = 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	

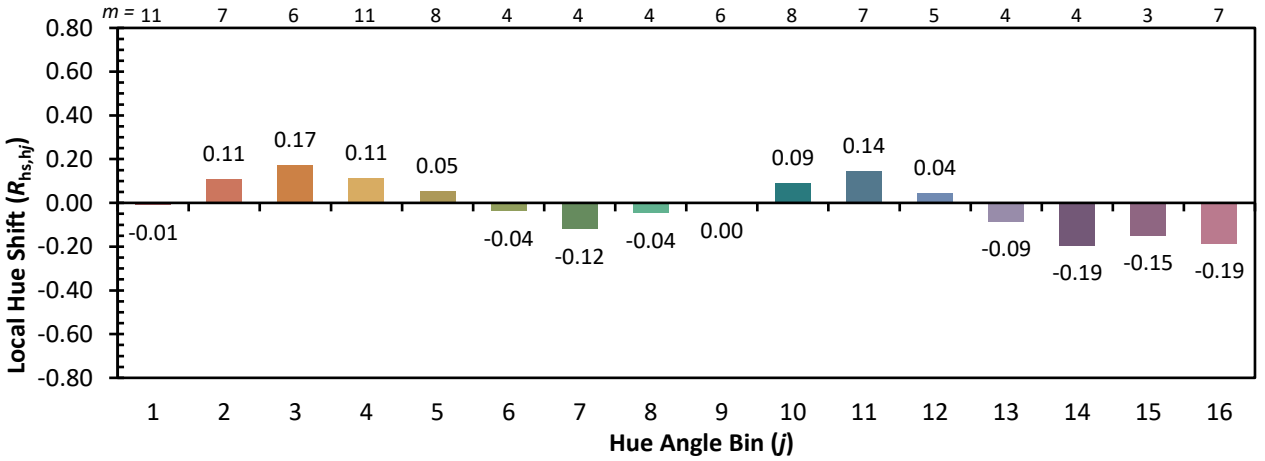


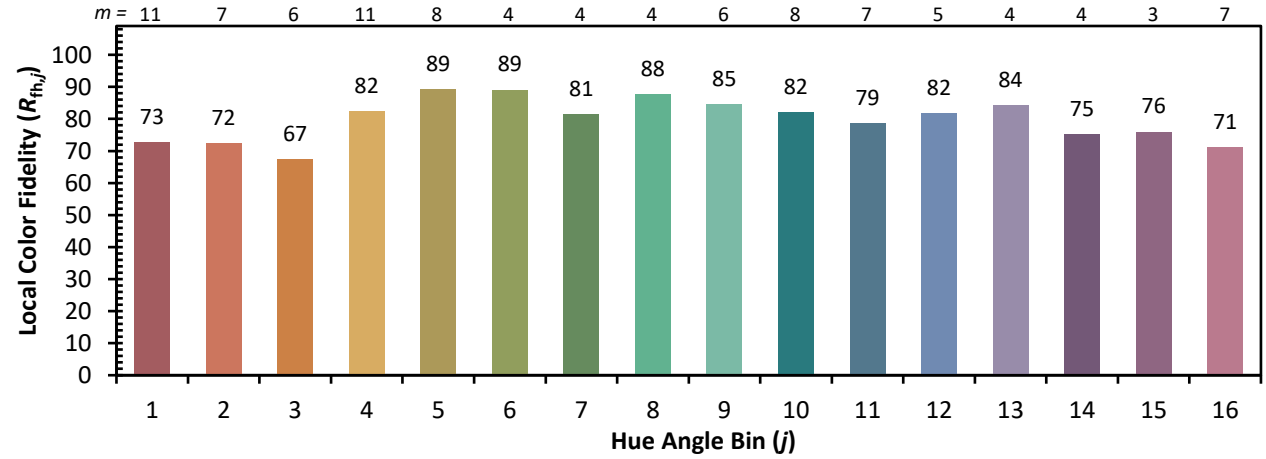
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Color Rendition by Hue-Angle Bin



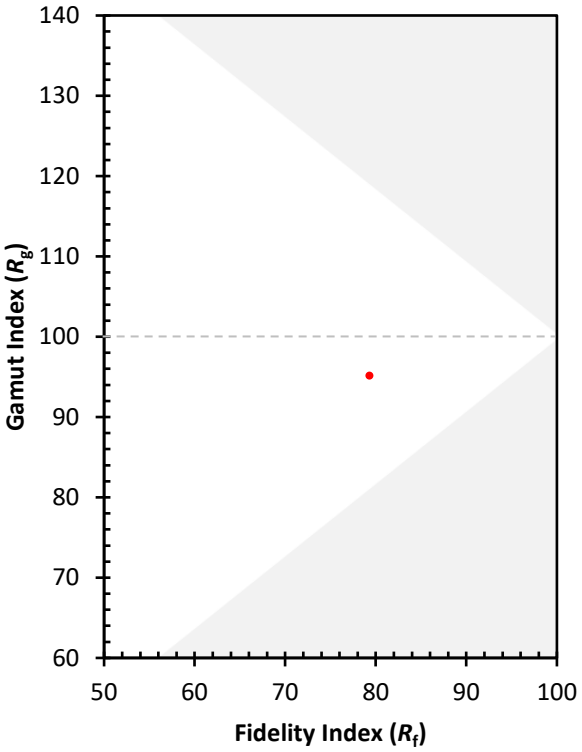


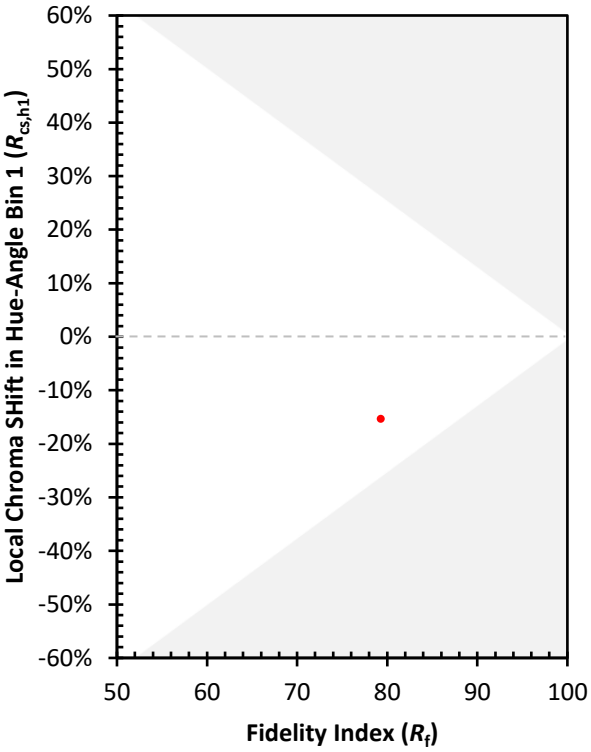


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Measure Comparisons





(END OF REPORT)