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: P1046379

Luminaire Tested: **FFX-CLB-20-727-U-FR-T4**

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:	P1046379
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-T4
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3053.9 lumens
Efficiency:	N/A
Efficacy:	154.2 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):	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

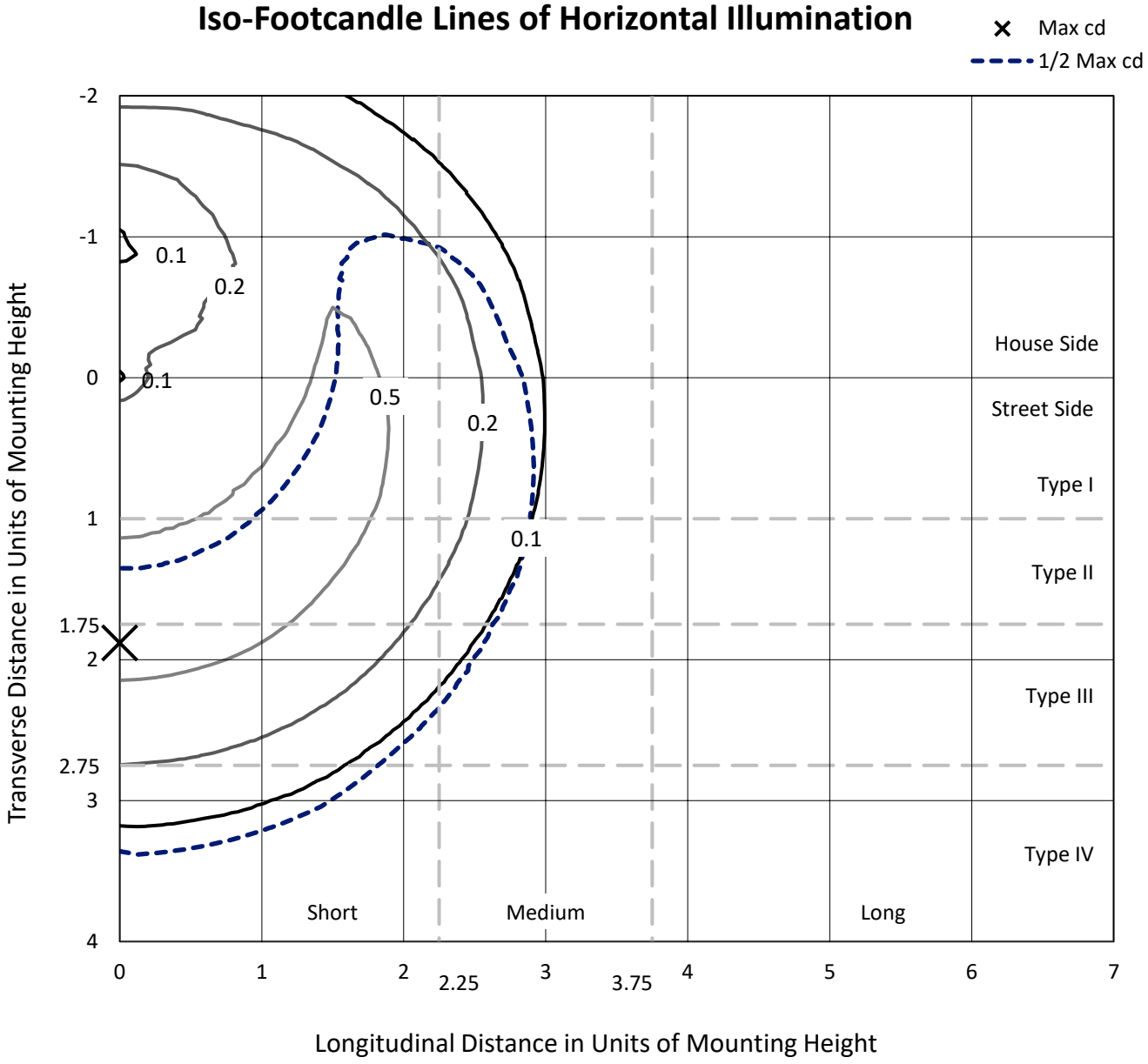


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Iso-Footcandle Lines of Horizontal Illumination



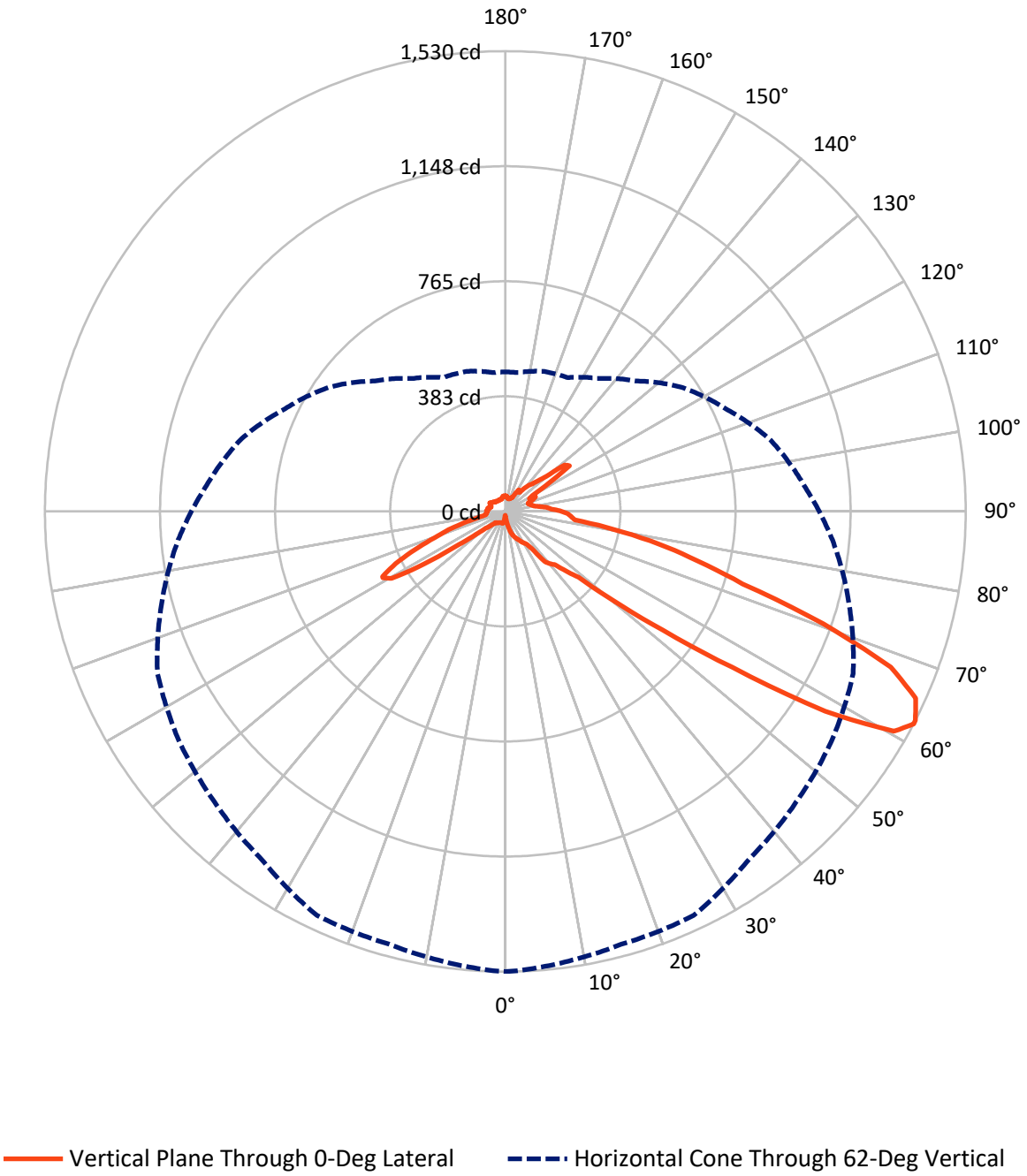
Based on 15 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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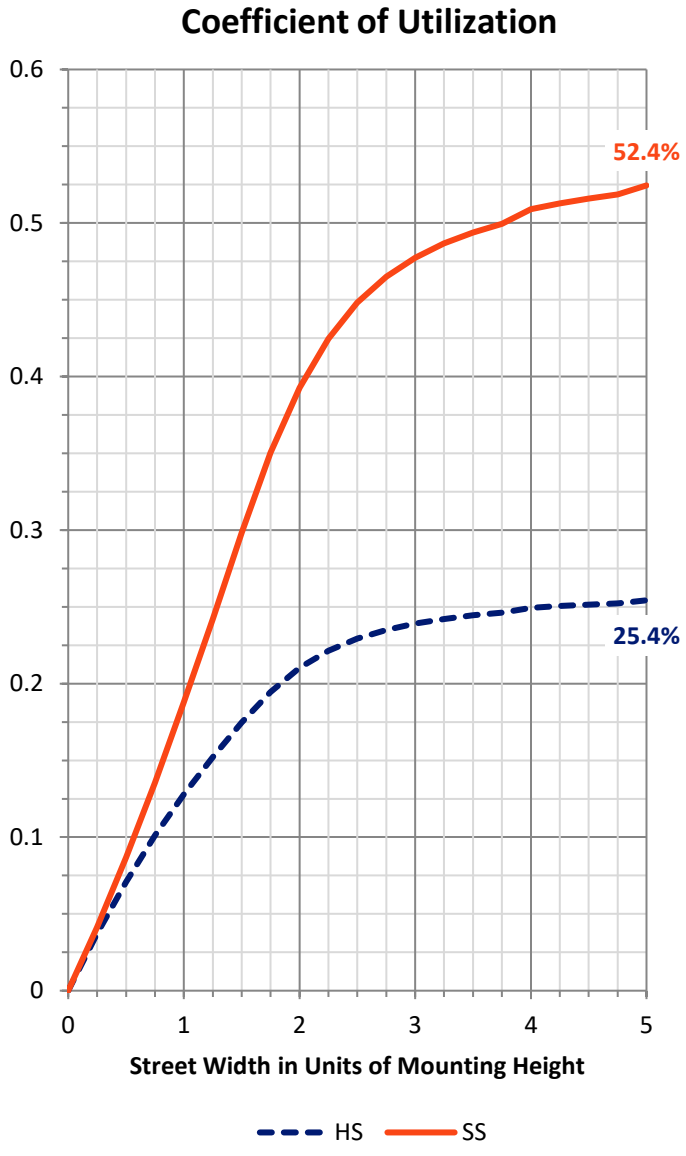
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.5	229.6	1033.1
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	1668.1	352.6	2020.8
	% Fixture	54.6	11.5	66.2
Total	Lumens	2471.7	582.2	3053.9
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	17.0	0.6
20°-30°	36.7	1.2
30°-40°	73.4	2.4
40°-50°	160.8	5.3
50°-60°	563.2	18.4
60°-70°	942.5	30.9
70°-80°	489.2	16.0
80°-90°	185.8	6.1
90°-100°	118.5	3.9
100°-110°	78.5	2.6
110°-120°	82.0	2.7
120°-130°	137.1	4.5
130°-140°	82.5	2.7
140°-150°	43.6	1.4
150°-160°	22.9	0.8
160°-170°	12.4	0.4
170°-180°	4.7	0.2
0°-90°	2471.7	80.9
0°-180°	3053.9	100.0



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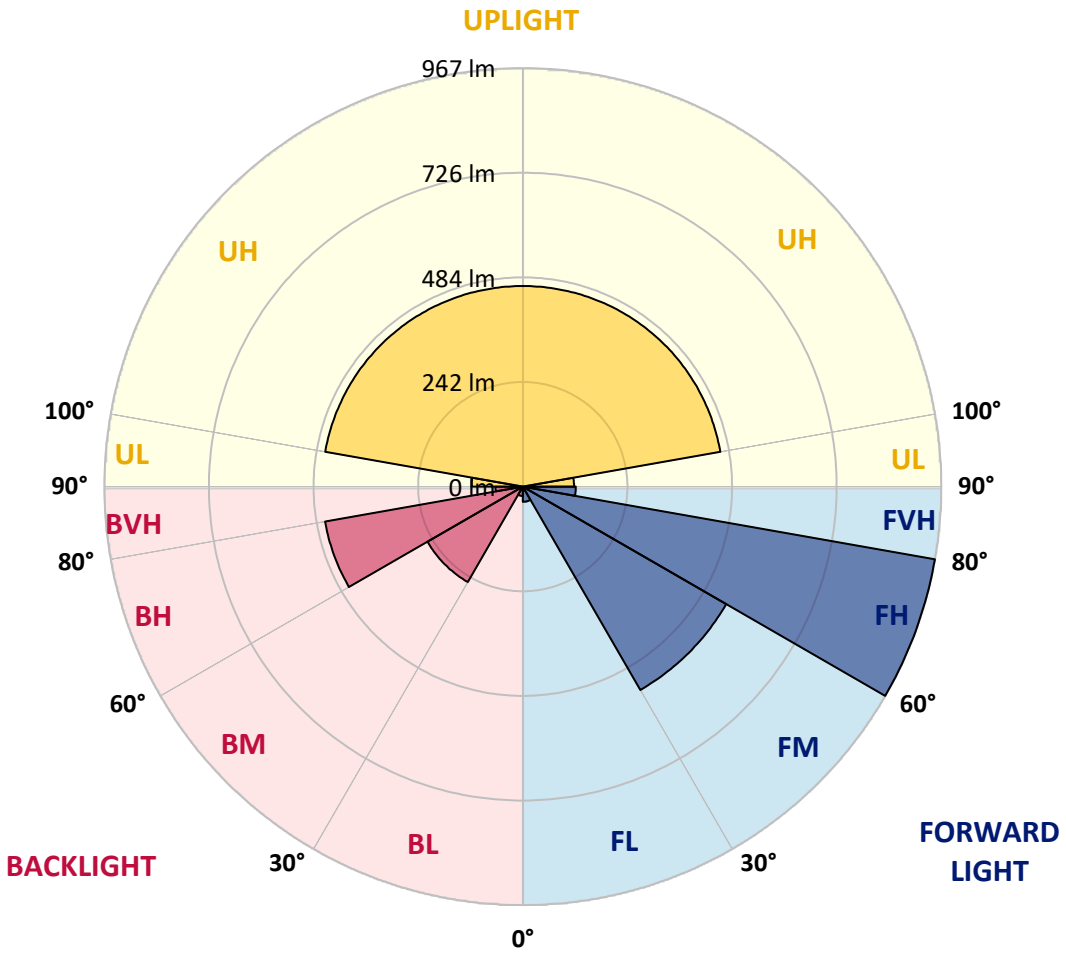
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	35.2	1.2			
FM	(30°-60°)	542.9	17.8			
FH	(60°-80°)	967.5	31.7			G1/1800
FVH	(80°-90°)	122.5	4.0			G2/225
BL	(0°-30°)	21.5	0.7	B0/110		
BM	(30°-60°)	254.5	8.3	B1/1000		
BH	(60°-80°)	464.2	15.2	B1/500		G1/500
BVH	(80°-90°)	63.3	2.1			G1/100
UL	(90°-100°)	118.5	3.9		U3/500	
UH	(100°-180°)	463.7	15.2		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*19.0*	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	*19.2*	18.8	18.8	19.6	20.6	20.6	20.8	20.2	20.2	20.0	20.2
5°	*28.0*	27.2	27.6	27.8	28.2	28.6	28.9	28.9	28.2	27.6	26.0
7.5°	*39.0*	38.9	39.2	39.0	38.7	39.6	40.2	41.6	42.0	39.4	36.3
10°	*50.3*	49.7	49.5	49.7	49.9	49.3	50.5	51.5	50.1	47.2	44.5
12.5°	*62.6*	62.6	62.6	62.4	62.4	62.2	61.8	61.6	60.2	56.9	52.6
15°	*76.2*	76.3	76.7	76.5	75.6	74.0	72.9	71.9	71.1	68.8	63.3
17.5°	*84.5*	84.1	84.5	84.3	83.9	83.0	80.8	78.9	76.3	73.0	69.0
20°	*92.3*	92.1	91.9	91.9	91.5	90.3	89.0	85.9	82.6	79.1	74.4
22.5°	*98.3*	97.9	98.3	98.1	97.9	97.5	95.2	92.5	88.8	84.9	80.0
25°	*106.1*	105.9	106.1	105.5	105.5	104.9	103.5	100.0	96.0	91.7	85.7
27.5°	*114.6*	114.0	114.6	114.4	113.6	112.1	110.9	107.0	102.0	97.9	92.5
30°	*121.8*	121.8	122.2	121.0	121.8	120.4	117.7	113.5	109.2	103.9	98.3
32.5°	*129.4*	129.4	129.0	128.8	129.8	128.0	124.9	119.9	116.4	110.9	106.1
35°	*150.6*	149.0	151.5	151.3	156.2	152.7	146.9	140.1	134.6	127.6	121.2
37.5°	*211.4*	210.6	209.4	202.0	193.5	194.9	195.8	188.2	181.4	168.8	153.9
40°	*228.7*	228.5	228.3	224.0	226.3	220.1	217.0	213.1	211.9	195.4	175.4
42.5°	*242.8*	240.5	242.8	250.6	262.8	258.6	242.8	222.6	218.9	203.2	195.0
45°	*281.3*	279.7	283.6	286.0	282.1	275.1	279.6	264.8	254.7	232.3	217.4
47.5°	*327.3*	325.8	329.5	331.4	339.4	332.0	328.5	315.9	299.0	277.8	258.4
50°	*464.7*	447.2	461.4	456.5	458.5	442.0	448.6	430.5	415.3	380.6	345.4
52.5°	*656.0*	650.2	640.5	629.6	638.0	620.3	625.7	606.1	578.7	538.3	486.5
55°	*915.0*	895.4	901.6	923.9	919.3	887.6	882.2	834.4	785.2	724.8	670.2
57.5°	*1253.8*	1244.1	1232.8	1217.9	1203.3	1170.5	1154.3	1100.9	1024.6	940.3	864.3
60°	*1484.4*	1476.6	1471.6	1425.9	1399.1	1333.1	1318.1	1281.0	1213.0	1121.3	1016.6
62°	*1530.3*	*1529.1*	*1518.8*	*1490.4*	*1482.5*	*1412.5*	*1367.1*	*1325.7*	*1275.8*	*1182.7*	*1091.6*
62.5°	*1529.9*	1527.5	1521.5	1497.8	1489.7	1424.2	1374.8	1330.9	1281.2	1189.9	1100.3
65°	*1498.8*	1493.5	1490.8	1476.6	1472.9	1434.5	1369.0	1323.8	1282.0	1181.4	1106.8
67.5°	*1381.8*	1388.1	1388.4	1374.3	1362.0	1339.1	1276.5	1237.3	1208.5	1103.6	1033.3
70°	*1121.7*	1113.4	1104.8	1111.4	1106.0	1093.5	1043.8	994.5	958.5	903.5	836.9
72.5°	*824.5*	837.7	837.5	839.4	840.4	809.1	787.0	758.6	739.2	691.6	644.0
75°	*660.9*	662.1	658.4	644.8	630.2	612.1	616.0	613.5	604.2	553.9	506.7
77.5°	*521.8*	509.0	514.2	492.9	474.0	473.8	481.4	488.8	492.9	452.5	415.9
80°	*367.4*	364.4	359.8	361.7	346.2	350.3	354.0	359.0	351.0	327.1	310.2
82.5°	*232.0*	229.4	225.7	243.6	258.6	255.3	243.4	224.4	219.9	221.7	217.8
85°	*219.3*	219.1	215.8	214.1	211.8	206.5	209.4	213.5	211.2	198.0	180.9
87.5°	*207.1*	206.5	204.0	203.0	198.5	198.0	200.7	202.2	203.2	191.4	177.0
90°	*181.4*	179.1	176.8	178.7	178.1	178.5	179.3	178.9	179.3	165.3	159.3
92.5°	*151.3*	150.8	149.0	150.0	151.3	156.8	154.4	150.8	150.2	144.5	138.7
95°	*138.1*	138.5	136.4	137.7	138.1	138.1	136.6	134.8	133.5	129.0	123.7
97.5°	*114.4*	112.7	111.9	112.9	113.3	111.9	110.9	108.0	107.8	103.4	100.8
100°	*97.3*	96.9	96.6	97.7	98.1	97.5	97.7	96.0	95.8	93.2	90.5
102.5°	*90.9*	90.7	90.5	91.5	91.9	91.5	90.9	89.2	89.6	86.8	84.9
105°	*85.9*	85.9	85.7	86.3	85.1	84.5	83.7	83.7	84.1	82.0	79.1
107.5°	*80.2*	80.0	80.2	80.0	78.7	78.1	77.9	77.3	78.7	77.5	74.4

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*81.2*	81.2	81.0	78.9	78.1	77.1	76.7	77.7	77.3	75.4	73.4
112.5°	*99.5*	98.3	99.1	96.2	94.8	95.6	96.0	96.7	98.3	95.2	92.3
115°	*111.1*	111.3	113.3	113.3	110.3	111.7	111.7	111.5	113.1	110.7	107.8
117.5°	*90.7*	91.9	98.1	94.2	95.2	96.0	91.1	89.4	89.0	89.6	95.8
120°	*104.5*	103.0	108.8	96.6	92.9	92.9	96.4	100.8	96.0	88.6	90.5
122.5°	*171.0*	171.2	171.3	176.6	176.0	177.6	174.8	171.3	161.2	161.4	152.3
125°	*261.7*	259.2	259.2	256.8	256.4	252.7	257.4	260.3	252.6	239.3	225.0
127.5°	*250.4*	255.9	253.9	248.1	242.4	240.5	245.9	255.1	250.6	239.0	225.7
130°	*177.8*	179.1	178.7	184.9	186.5	184.6	186.5	179.9	180.9	183.6	176.6
132.5°	*149.0*	148.2	150.9	159.5	162.8	158.9	153.5	148.6	148.8	154.6	154.2
135°	*128.4*	127.8	129.8	130.2	133.9	130.7	125.9	125.9	127.1	128.4	127.8
137.5°	*116.0*	115.2	115.8	111.3	106.8	106.7	110.5	112.7	111.5	110.2	108.6
140°	*99.9*	100.2	99.3	95.6	93.6	94.0	96.6	99.9	98.9	96.0	93.6
142.5°	*79.5*	78.7	79.8	82.6	86.4	86.4	82.6	78.5	78.3	79.7	81.6
145°	*78.3*	77.9	78.1	77.5	78.3	77.5	76.3	75.2	73.8	72.9	72.1
147.5°	*84.9*	84.9	84.7	83.7	83.0	81.6	82.0	83.3	84.1	83.3	82.2
150°	*69.0*	69.5	69.5	69.4	68.6	69.2	69.9	70.3	71.1	71.1	69.9
152.5°	*53.0*	52.8	53.4	52.6	52.5	52.8	53.8	54.6	54.8	54.8	53.2
155°	*50.5*	50.1	50.5	50.1	49.7	50.1	50.9	51.3	51.7	51.1	49.5
157.5°	*47.2*	47.2	47.2	46.8	47.0	47.0	47.4	47.6	47.8	47.6	47.2
160°	*44.7*	44.7	44.9	44.7	44.7	45.1	44.9	44.7	44.7	44.5	44.3
162.5°	*43.1*	43.1	43.1	43.1	42.9	42.9	43.1	42.9	42.7	42.5	42.9
165°	*42.4*	42.2	42.2	42.2	42.4	42.2	42.2	42.2	42.0	42.5	43.3
167.5°	*43.9*	43.5	43.7	43.9	43.9	43.7	43.7	43.7	44.1	44.7	45.3
170°	*46.0*	45.8	45.8	46.0	46.0	45.8	45.8	45.8	46.0	46.2	46.4
172.5°	*47.8*	47.6	47.6	47.6	47.4	47.2	47.2	47.2	47.2	47.2	47.4
175°	*49.5*	49.5	49.5	49.5	49.3	49.2	49.2	49.2	49.2	49.2	49.2
177.5°	*51.5*	51.3	51.5	51.3	51.3	51.3	51.1	50.9	50.7	50.7	50.7
180°	*51.1*	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
2.5°	19.8	19.6	18.5	17.5	16.7	15.9	14.8	13.8	13.0	12.8	12.8
5°	25.6	25.3	24.1	22.5	21.8	20.6	19.4	18.6	17.7	17.3	17.5
7.5°	35.4	35.6	35.9	36.7	36.3	33.0	29.3	28.6	29.3	30.5	31.1
10°	43.9	43.3	43.1	45.7	45.1	40.2	35.4	33.8	35.2	37.7	38.9
12.5°	50.9	49.7	49.5	49.9	47.6	42.4	38.3	36.5	37.3	39.2	39.0
15°	61.2	59.4	56.9	55.4	52.5	48.8	43.7	40.8	40.8	40.8	40.6
17.5°	67.2	65.3	60.4	55.9	52.3	49.5	46.2	43.5	40.6	40.2	40.0
20°	72.5	69.5	64.3	59.4	54.8	50.9	46.2	42.9	40.4	40.0	39.8
22.5°	76.9	74.2	68.6	62.7	56.9	52.5	47.4	43.9	41.4	40.6	40.4
25°	83.0	80.0	73.6	66.8	60.0	54.4	49.7	45.7	42.5	41.0	41.0
27.5°	89.0	85.7	78.5	71.5	64.1	57.1	51.9	47.8	43.9	41.8	41.6
30°	94.8	91.1	83.3	75.4	68.0	60.6	54.6	49.9	45.7	43.3	43.1
32.5°	103.0	98.7	89.6	79.7	72.3	64.3	57.5	52.1	47.6	45.3	44.9
35°	118.9	114.0	103.7	90.9	79.3	68.6	60.4	53.2	49.0	46.4	46.2
37.5°	148.4	142.8	128.4	112.7	96.7	80.6	65.7	54.8	49.9	47.6	47.2
40°	166.1	155.0	139.9	127.4	115.4	99.9	80.6	63.5	51.9	49.2	48.8
42.5°	189.0	177.6	155.6	131.9	116.6	104.3	90.7	79.7	62.9	53.2	51.5
45°	210.8	202.0	183.2	157.9	134.6	113.5	96.6	85.9	75.2	64.1	62.4
47.5°	247.3	234.5	209.6	183.8	160.1	136.4	116.4	95.6	81.8	75.2	74.8
50°	340.9	317.6	281.7	250.8	206.1	169.8	146.1	118.3	100.6	90.3	87.0
52.5°	462.0	437.7	396.7	352.0	302.5	255.7	209.2	169.4	140.7	122.6	123.2
55°	642.3	618.0	557.7	481.2	413.2	364.4	314.7	266.3	220.1	193.5	190.2
57.5°	832.4	810.7	759.2	665.8	557.6	467.4	408.4	374.2	350.5	321.5	321.5
60°	971.9	935.8	877.5	783.3	687.3	568.8	493.1	444.1	439.8	434.8	438.7
62°	*1043.2*	*996.6*	*913.5*	*807.6*	*718.4*	*612.9*	*539.3*	*490.7*	*482.2*	*463.1*	*463.5*
62.5°	1055.3	1003.8	919.5	807.6	721.1	616.8	544.3	496.9	485.1	461.8	462.2
65°	1067.3	1005.3	923.9	794.6	705.8	603.4	547.6	485.9	454.8	415.7	404.3
67.5°	998.2	934.6	864.9	738.8	646.5	547.6	485.9	423.9	373.2	333.6	327.3
70°	810.7	760.8	706.9	610.6	530.0	449.9	397.5	341.5	291.0	247.3	250.0
72.5°	615.3	568.6	519.3	458.1	408.0	354.2	307.7	262.7	220.7	193.5	198.5
75°	476.5	445.5	410.5	366.0	327.9	278.2	225.4	185.3	157.0	140.5	141.4
77.5°	391.8	359.6	331.0	290.2	254.1	203.2	152.3	118.1	101.6	94.2	92.3
80°	301.3	277.8	252.6	216.0	176.2	137.0	102.4	86.4	75.6	70.1	68.0
82.5°	210.4	195.8	174.6	148.2	125.3	110.9	96.0	82.6	71.3	66.2	63.9
85°	173.3	165.5	153.9	138.9	125.3	109.4	92.7	79.1	69.4	65.5	63.3
87.5°	168.8	163.6	150.4	134.4	118.1	101.8	84.9	72.3	66.1	63.5	61.6
90°	154.8	148.8	139.5	123.7	109.2	91.7	77.9	70.3	65.7	62.7	60.6
92.5°	135.0	131.7	123.2	111.9	101.8	90.5	80.6	73.8	69.0	65.5	63.3
95°	120.1	116.2	111.3	102.2	93.8	84.7	75.6	69.2	64.1	60.4	58.7
97.5°	98.7	96.0	91.3	85.3	79.1	71.7	65.3	61.0	57.7	55.9	54.8
100°	89.6	87.8	85.1	80.8	75.8	70.5	65.9	63.5	62.2	61.0	60.4
102.5°	83.0	81.0	78.9	74.4	70.5	65.9	62.7	60.8	59.1	57.1	56.7
105°	77.1	75.6	72.7	69.0	65.1	60.6	56.9	55.8	54.2	52.5	52.3
107.5°	72.7	71.1	68.6	64.7	61.2	57.3	54.0	52.3	50.5	49.5	49.3

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

Scaled Data Report

REPORT NUMBER: P1046379
CATALOG NUMBER: FFX-CLB-20-727-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	72.3	71.1	68.4	65.1	62.4	58.5	54.8	54.2	52.3	49.9	49.7
112.5°	90.1	86.4	81.2	75.8	71.1	67.2	62.6	57.9	54.0	51.7	51.3
115°	104.5	100.8	94.4	86.4	79.1	70.7	62.7	56.9	54.8	54.2	55.0
117.5°	98.3	90.5	79.7	74.8	68.4	63.9	60.8	59.4	55.9	56.9	57.9
120°	94.4	89.2	79.7	78.9	76.0	70.9	63.7	62.2	60.2	58.7	58.5
122.5°	151.7	146.7	135.8	119.3	101.4	89.4	84.9	75.6	64.3	55.8	54.4
125°	215.1	206.9	185.5	167.3	143.6	118.1	95.2	75.6	60.2	52.1	51.1
127.5°	219.3	210.2	191.5	166.9	136.8	105.7	82.0	67.8	57.5	52.1	51.1
130°	171.0	165.1	151.3	128.2	107.4	89.0	75.6	64.1	54.8	50.7	50.1
132.5°	151.1	145.9	126.3	107.0	93.2	79.1	67.8	56.9	49.0	46.2	45.8
135°	124.9	119.1	106.1	94.2	84.1	72.7	61.4	52.1	46.4	45.1	44.9
137.5°	106.7	103.9	94.2	85.9	76.7	66.8	57.5	50.3	46.8	45.7	45.5
140°	92.1	91.5	85.5	78.1	69.0	58.5	51.3	47.0	45.7	45.1	44.9
142.5°	81.4	80.6	74.0	65.5	57.3	51.9	49.2	47.8	46.6	45.1	44.7
145°	70.5	69.2	65.1	61.4	58.9	57.1	54.6	50.3	45.8	43.5	43.3
147.5°	80.2	77.9	73.4	68.2	62.7	57.1	51.9	47.4	43.7	42.4	42.2
150°	67.4	67.2	64.3	60.2	56.1	51.1	47.2	44.3	42.7	42.5	42.5
152.5°	52.3	52.3	52.3	51.3	49.3	46.6	43.7	42.0	42.0	42.7	42.9
155°	49.2	49.3	49.5	49.2	47.6	45.1	42.5	41.8	42.0	42.7	42.9
157.5°	46.8	46.8	47.0	46.6	45.8	44.1	42.4	41.6	41.8	42.2	42.4
160°	44.1	44.1	44.3	44.3	43.5	42.9	42.2	41.6	41.6	41.8	42.0
162.5°	43.1	43.1	43.1	43.1	42.9	42.9	42.9	42.9	42.7	42.7	42.7
165°	43.5	43.5	42.9	42.7	43.1	43.7	44.7	44.9	43.9	43.7	43.7
167.5°	45.5	45.5	44.9	44.5	45.1	45.7	47.0	47.4	46.6	45.8	45.8
170°	46.6	46.6	46.6	46.8	47.0	47.6	48.4	48.8	48.6	48.4	48.4
172.5°	47.4	47.4	47.8	48.2	48.8	49.2	49.5	49.9	50.3	50.3	50.5
175°	49.0	49.2	49.5	49.7	50.1	50.5	50.9	51.3	51.5	51.5	51.5
177.5°	50.5	50.5	50.5	50.7	50.9	51.1	51.3	51.5	51.5	51.7	51.9
180°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1

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

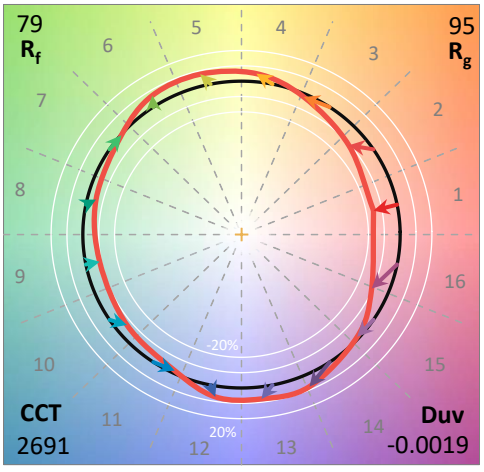
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

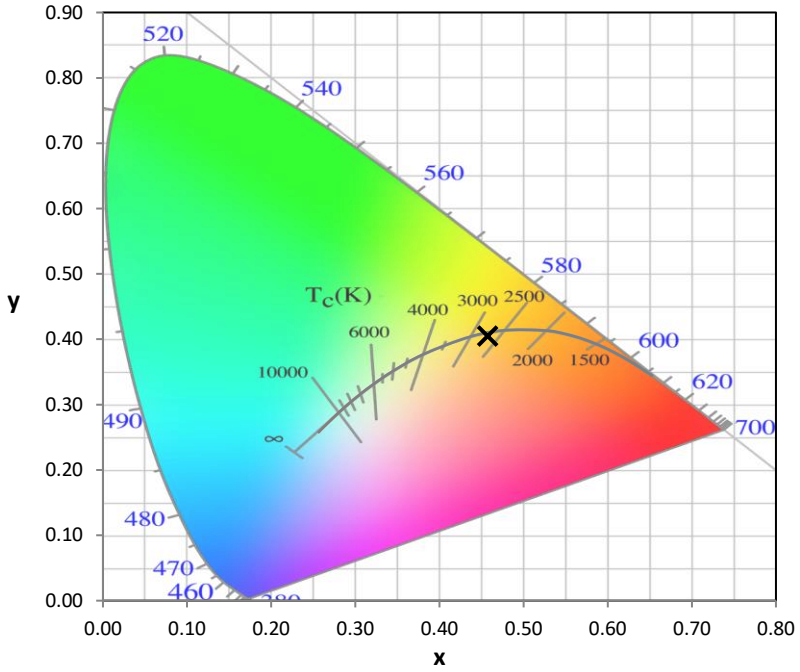
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

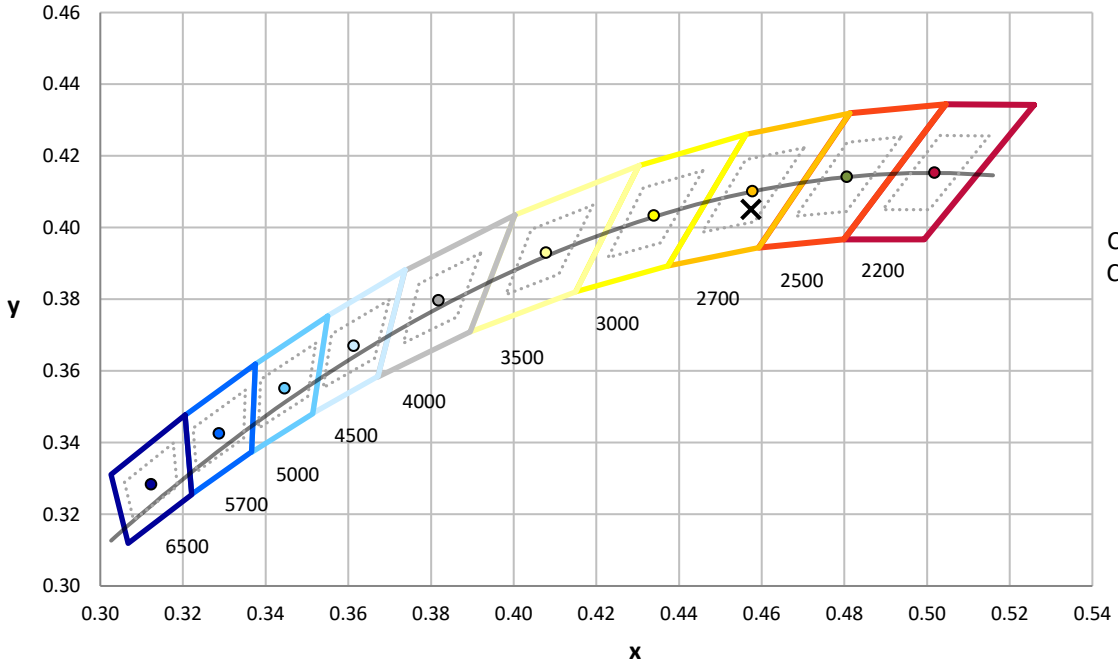
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

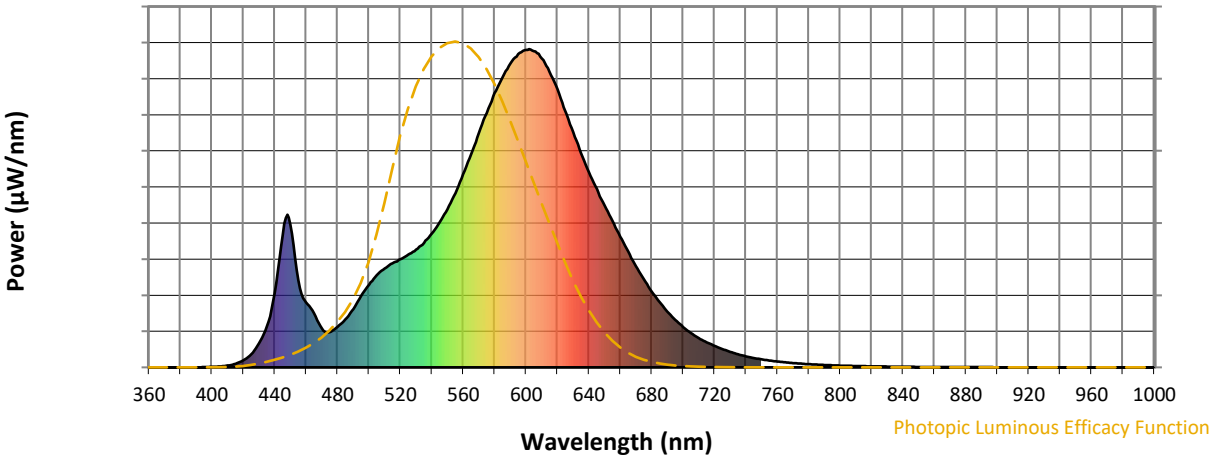


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

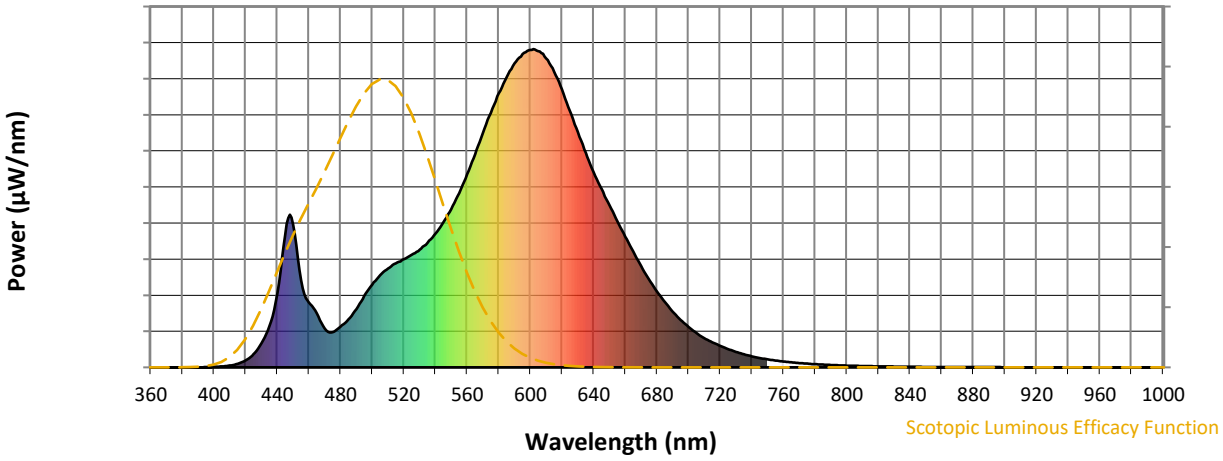


Photopic Lumens: NR

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

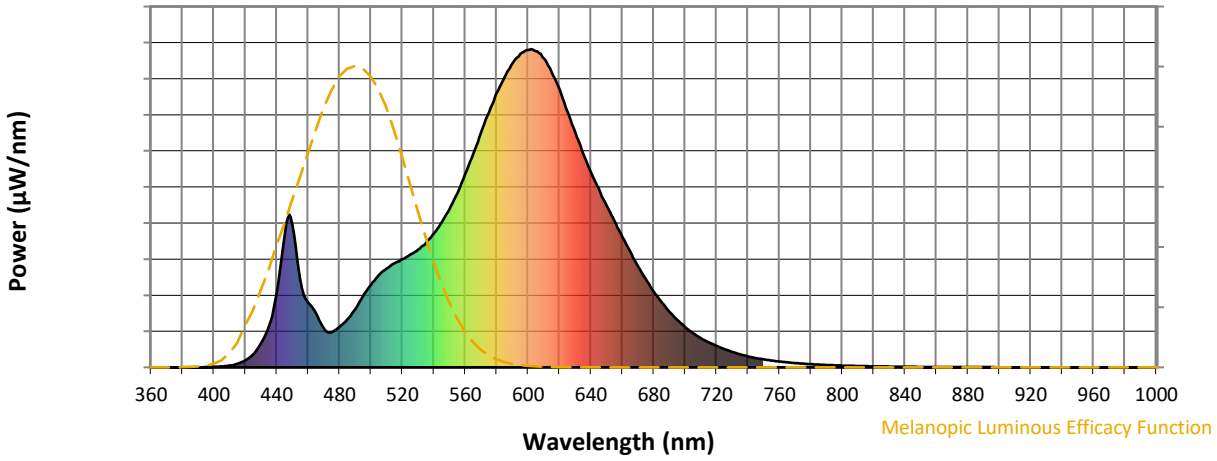


Scotopic Lumens: NR **S/P: 1.18**

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			

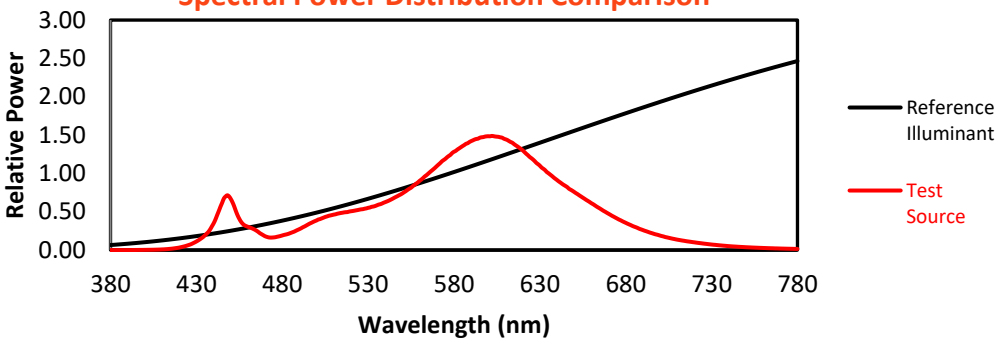
REPORT NUMBER: SP1-2501-332-8

TM-30-18

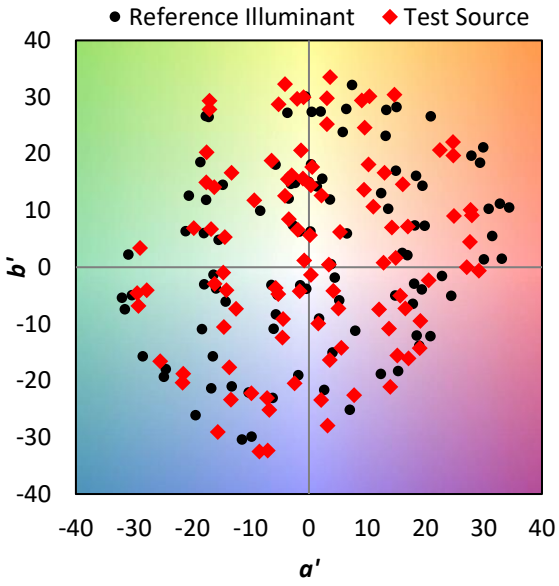
Summary

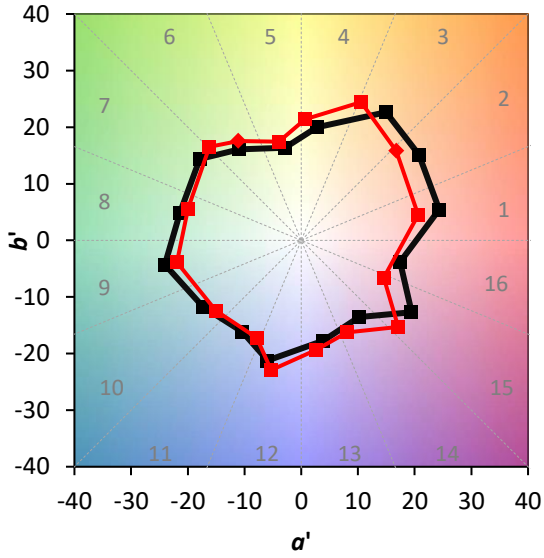
R_f = 79.3
R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

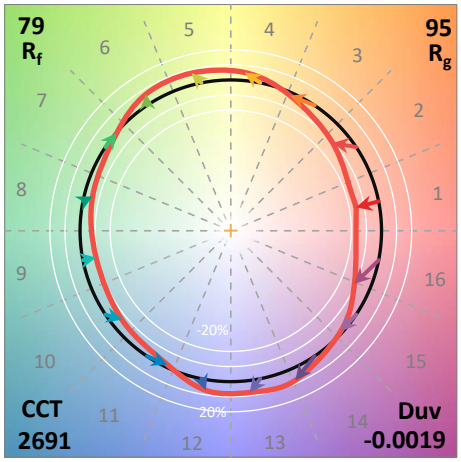
Spectral Power Distribution Comparison

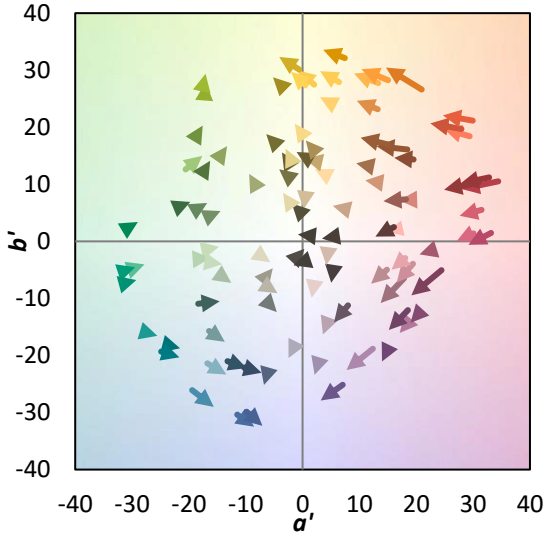


Color Vector Graphics







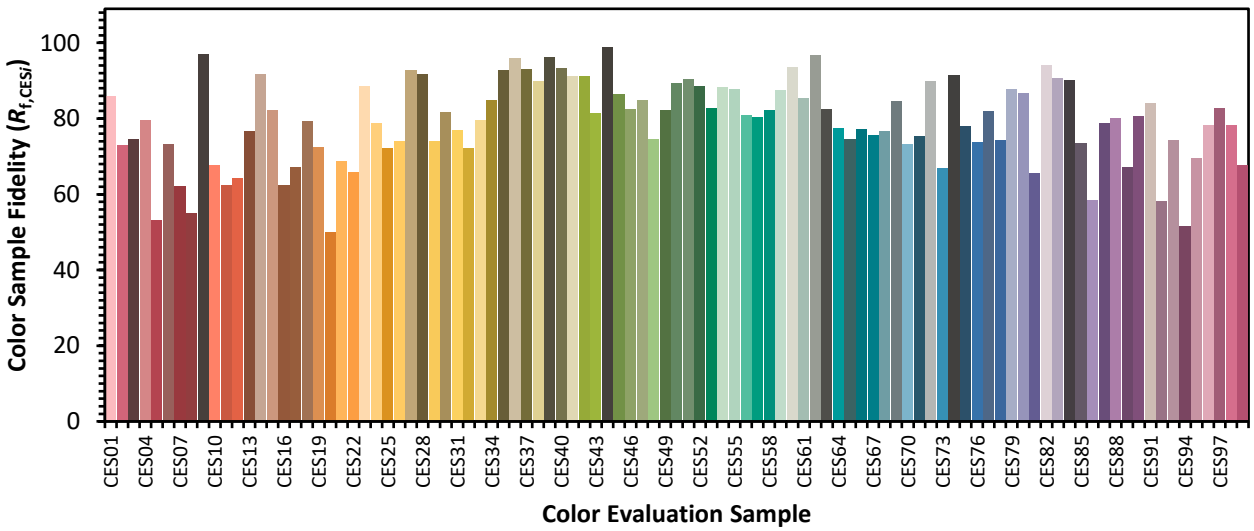


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

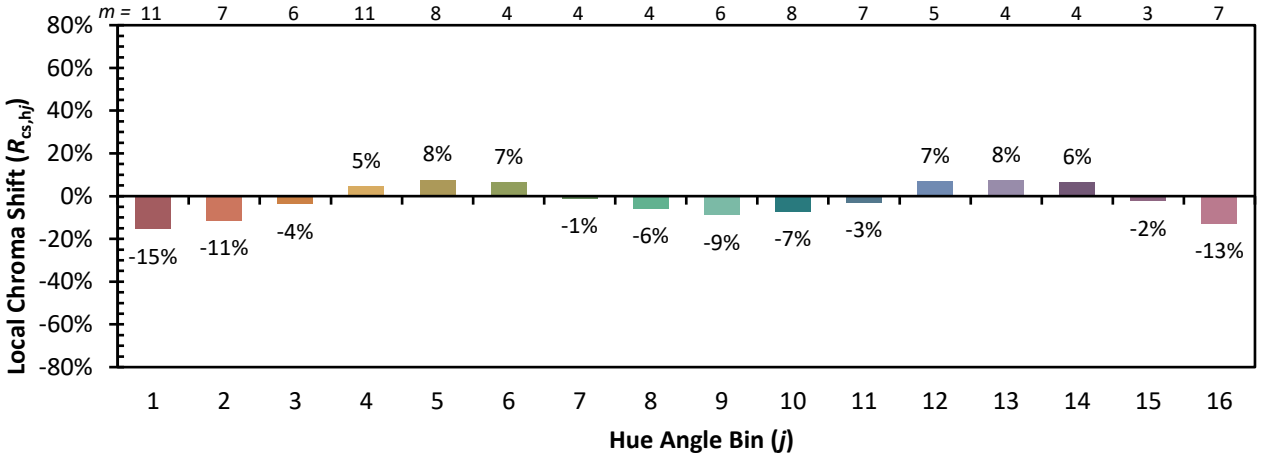
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

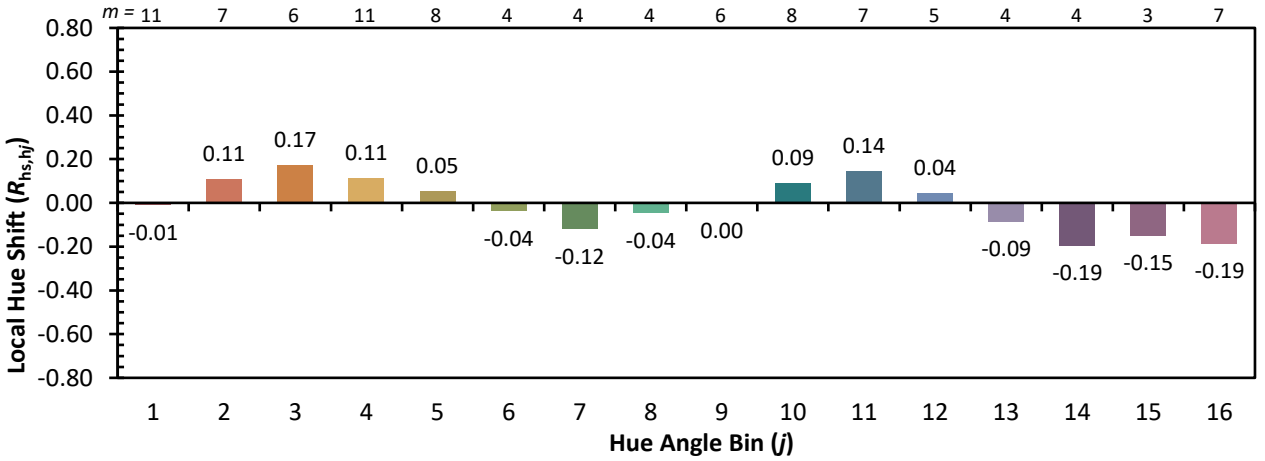


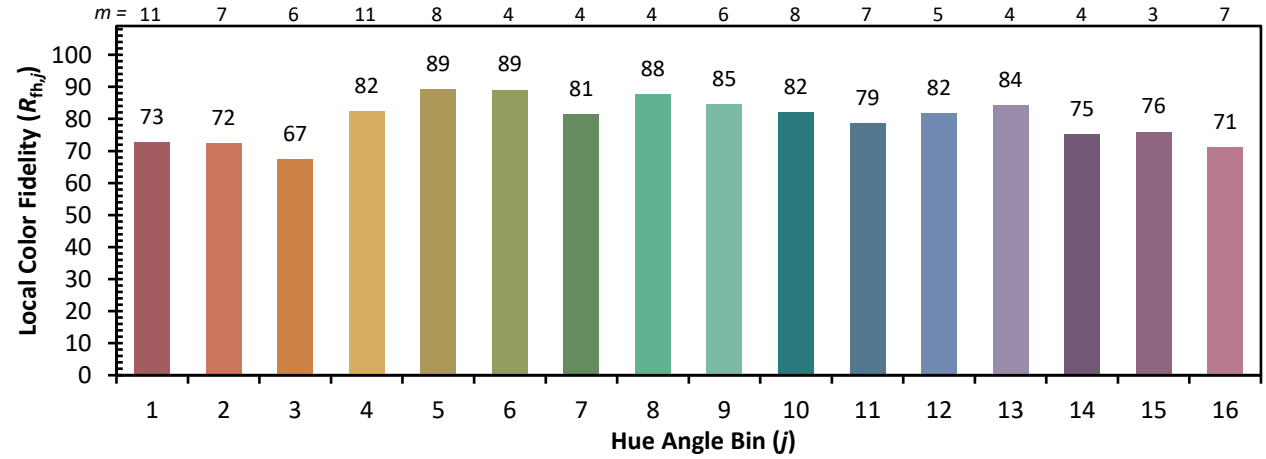
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Color Rendition by Hue-Angle Bin



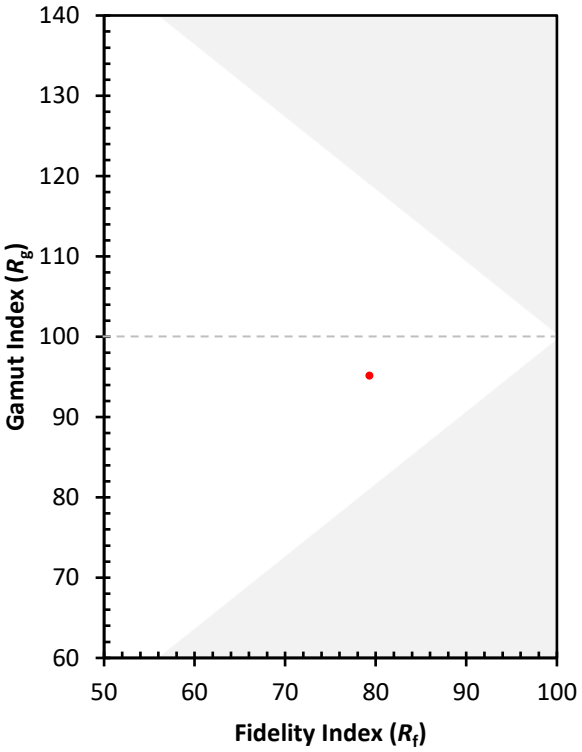


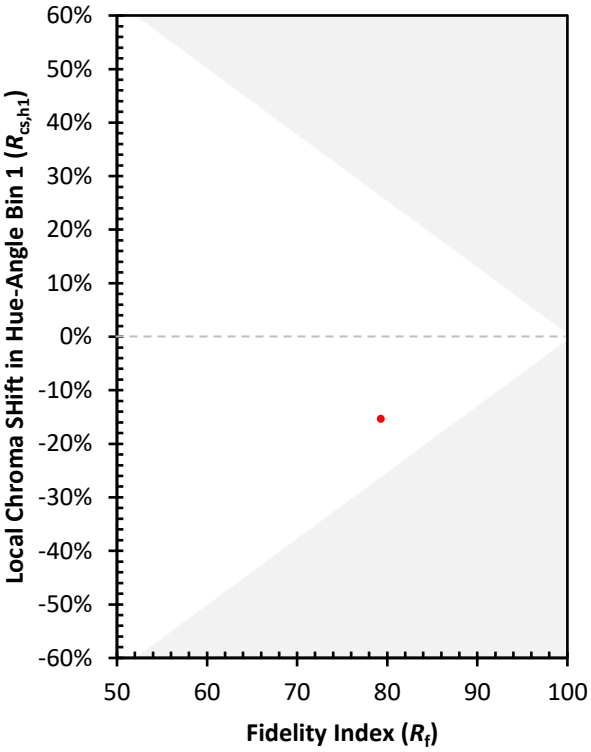


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Measure Comparisons





(END OF REPORT)