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: P1045747

Luminaire Tested: **FFX-CLB-40-727-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:	P1045747
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-40-727-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:	3870.3 lumens
Efficiency:	N/A
Efficacy:	98.2 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):	39.4
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

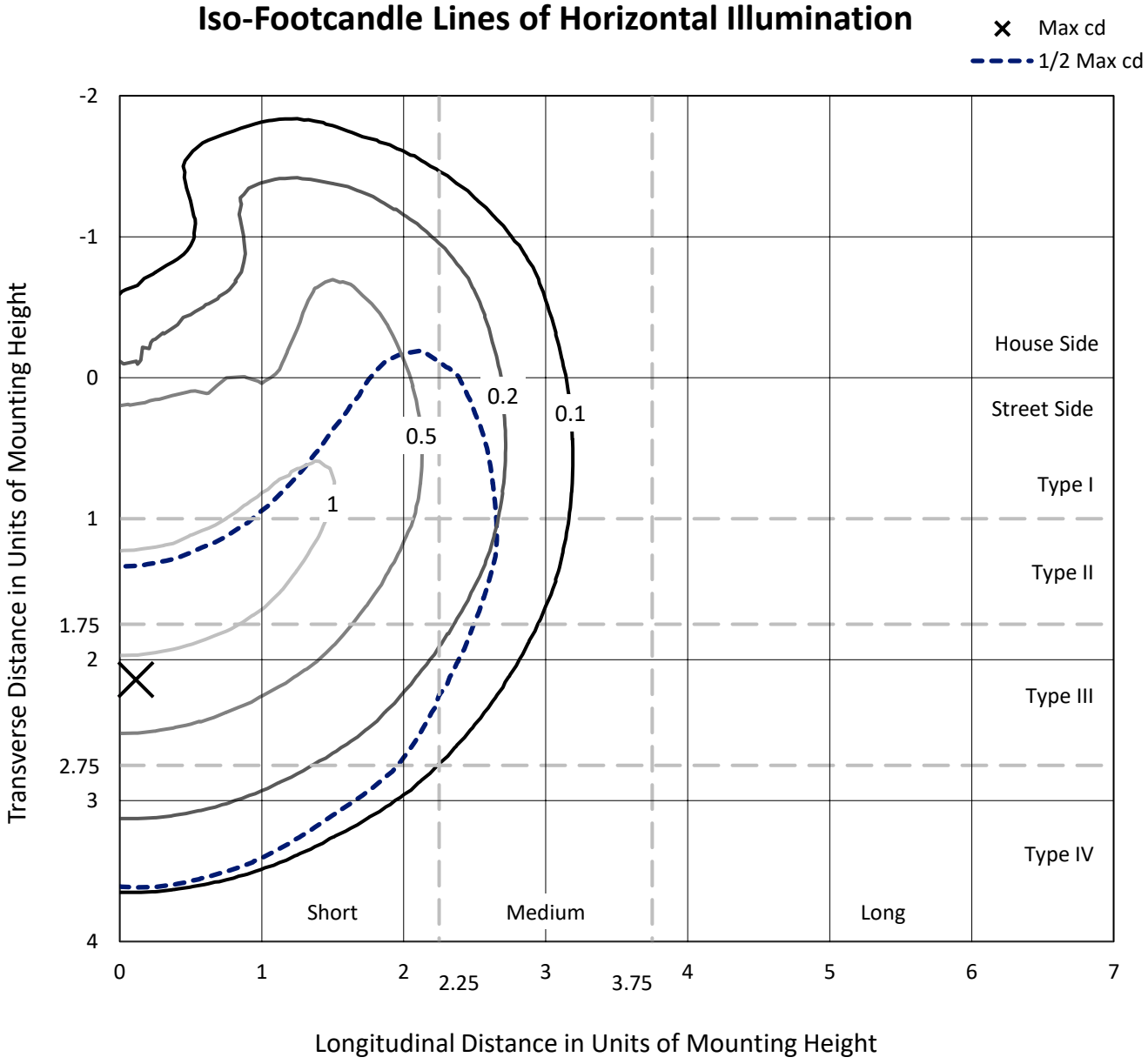


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Iso-Footcandle Lines of Horizontal Illumination



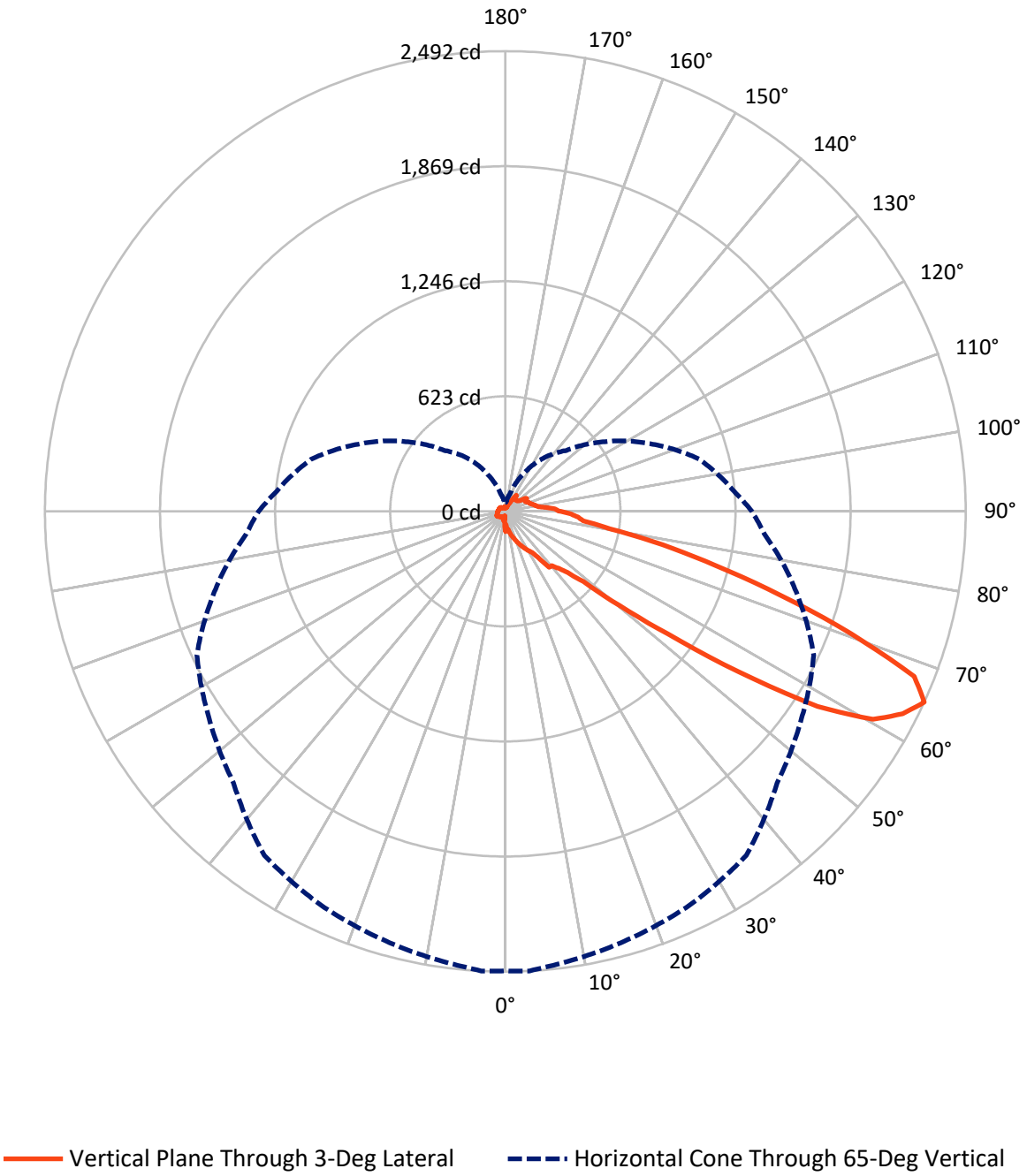
Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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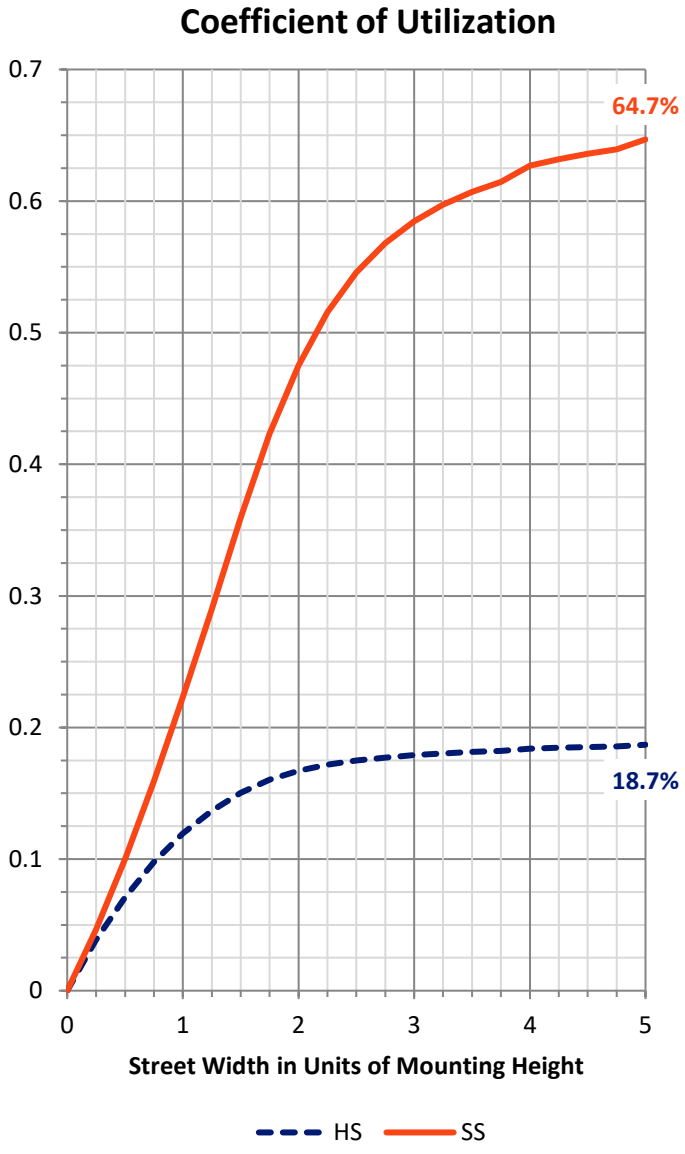
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.8	162.8	911.6
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	2611.0	347.7	2958.7
	% Fixture	67.5	9.0	76.4
Total	Lumens	3359.8	510.4	3870.3
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.2
10°-20°	26.4	0.7
20°-30°	58.8	1.5
30°-40°	118.9	3.1
40°-50°	238.9	6.2
50°-60°	766.5	19.8
60°-70°	1222.7	31.6
70°-80°	665.1	17.2
80°-90°	255.6	6.6
90°-100°	152.3	3.9
100°-110°	101.1	2.6
110°-120°	80.6	2.1
120°-130°	67.1	1.7
130°-140°	46.2	1.2
140°-150°	37.3	1.0
150°-160°	16.7	0.4
160°-170°	6.8	0.2
170°-180°	2.3	0.1
0°-90°	3359.8	86.8
0°-180°	3870.3	100.0



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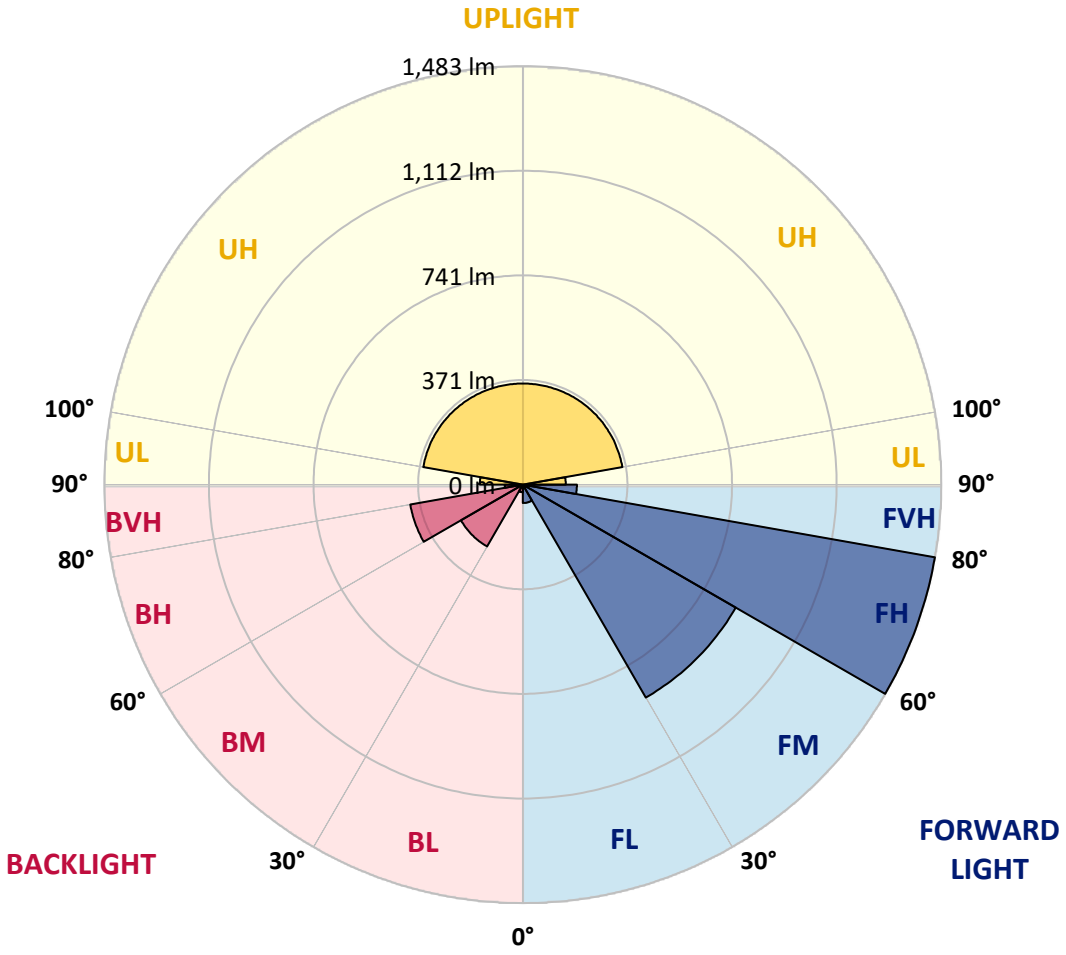
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	65.3	1.7			
FM	(30°-60°)	871.3	22.5			
FH	(60°-80°)	1482.9	38.3			G1/1800
FVH	(80°-90°)	191.6	5.0			G2/225
BL	(0°-30°)	26.9	0.7	B0/110		
BM	(30°-60°)	253.0	6.5	B1/1000		
BH	(60°-80°)	404.9	10.5	B1/500		G1/500
BVH	(80°-90°)	64.0	1.7			G1/100
UL	(90°-100°)	152.3	3.9		U3/500	
UH	(100°-180°)	358.1	9.3		U3/500	

BUG Rating: B1-U3-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
2.5°	70.7	70.3	71.6	77.8	93.8	99.2	94.7	87.2	85.8	93.8	100.1
5°	96.5	95.6	94.7	88.5	82.3	85.4	94.3	96.5	87.6	71.1	60.5
7.5°	97.8	96.9	97.4	97.4	96.0	90.3	83.6	86.7	94.3	84.0	66.3
10°	108.9	108.5	108.5	108.1	106.7	104.9	104.5	97.8	86.3	77.4	73.8
12.5°	127.2	127.2	126.7	126.3	125.0	121.8	117.8	112.5	108.9	98.3	87.2
15°	141.9	140.5	141.4	140.1	137.8	136.1	131.2	125.4	114.7	107.6	97.8
17.5°	156.1	156.1	156.5	154.3	151.6	150.3	145.0	137.4	127.2	114.7	105.4
20°	173.9	172.5	172.5	170.3	167.2	162.7	157.9	151.2	142.7	125.8	113.4
22.5°	190.8	191.2	191.2	187.7	182.8	178.8	172.1	164.1	156.1	138.7	122.7
25°	209.9	209.4	209.0	208.6	203.7	196.5	188.1	179.6	173.9	157.0	134.7
27.5°	227.7	226.8	226.3	228.6	224.1	217.0	204.5	194.3	188.1	170.8	145.9
30°	247.2	246.8	246.8	247.7	245.9	234.8	221.4	209.4	200.5	183.2	156.5
32.5°	264.6	263.7	264.1	267.7	267.2	253.0	241.0	226.3	215.2	201.4	172.1
35°	307.3	305.5	308.2	313.5	317.5	302.4	285.9	263.2	246.3	232.1	201.9
37.5°	384.2	384.6	385.5	378.4	363.3	352.2	344.2	325.9	305.0	281.0	245.5
40°	387.3	386.9	389.1	399.8	406.0	386.9	368.2	346.8	341.5	321.1	275.7
42.5°	423.3	420.7	422.9	433.1	441.6	430.0	413.5	377.5	358.0	339.7	302.4
45°	474.9	471.8	475.8	477.6	475.8	463.3	466.0	436.7	418.4	381.5	329.5
47.5°	553.6	567.8	570.1	570.5	588.3	571.4	560.7	532.7	491.4	447.3	388.2
50°	777.3	800.4	792.4	784.8	786.2	773.3	758.6	719.9	664.3	590.1	505.6
52.5°	1109.5	1100.6	1101.9	1106.8	1119.2	1061.9	1037.0	978.7	888.9	800.0	678.1
55°	1515.9	1531.0	1530.1	1546.1	1543.9	1482.1	1403.4	1305.6	1174.8	1044.5	900.5
57.5°	2018.4	1991.7	1973.9	1944.5	1919.2	1835.2	1783.1	1677.3	1504.3	1308.7	1123.7
60°	2300.3	2285.6	2281.2	2240.7	2206.0	2102.9	1995.7	1881.0	1745.8	1514.6	1304.7
62.5°	2406.1	2413.2	2407.0	2380.8	2357.6	2267.4	2087.3	1962.3	1841.4	1619.0	1398.0
65°	2487.5	2491.5	2477.3	2417.7	2354.5	2273.6	2079.7	1956.6	1841.8	1623.1	1406.9
67.5°	2387.9	2387.0	2375.9	2290.1	2183.3	2103.3	1927.2	1794.7	1697.3	1514.6	1306.0
70°	1982.8	1985.5	1987.7	1924.5	1807.6	1748.0	1569.7	1455.9	1371.8	1214.0	1064.1
72.5°	1552.3	1560.4	1563.9	1514.6	1427.8	1366.5	1247.3	1161.9	1083.7	958.3	840.4
75°	1167.7	1175.7	1173.5	1142.8	1081.9	1065.0	1007.2	934.3	868.9	771.5	671.9
77.5°	876.0	869.3	867.6	837.8	777.7	782.2	765.7	723.9	673.2	615.9	546.5
80°	580.3	574.5	563.0	573.2	568.3	554.1	526.9	505.6	485.6	451.3	413.5
82.5°	426.9	425.1	422.9	416.2	411.8	408.2	396.2	362.0	338.0	318.4	295.7
85°	399.3	394.0	394.9	383.3	369.5	357.1	347.7	333.1	314.4	283.7	250.8
87.5°	348.6	348.6	346.0	338.0	324.2	321.1	314.4	304.2	293.0	269.5	240.1
90°	289.9	288.1	288.1	287.7	284.6	282.4	269.5	260.1	255.2	231.7	211.2
92.5°	267.7	266.8	265.0	262.8	253.9	252.1	239.2	227.2	216.6	201.9	185.9
95°	217.4	219.2	215.2	214.8	210.3	207.7	197.4	191.7	184.5	172.5	157.9
97.5°	183.6	181.0	181.4	177.4	173.0	171.2	165.0	156.5	149.9	140.5	129.8
100°	168.5	168.1	167.2	164.1	157.9	153.9	147.2	139.2	132.5	124.1	115.2
102.5°	158.7	158.3	157.9	155.2	148.1	145.9	139.6	133.4	127.6	120.1	108.5
105°	149.0	148.5	147.6	144.5	140.1	137.8	132.1	128.5	122.7	116.1	104.9
107.5°	140.1	140.1	139.6	136.1	133.4	131.6	125.8	122.7	116.5	110.7	100.1
110°	135.6	135.6	135.2	132.5	127.2	124.5	119.2	115.2	109.4	103.6	95.2

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	130.7	*131.2*	131.2	132.1	119.2	114.3	109.8	106.7	101.8	96.5	89.4
115°	119.6	*120.1*	119.6	124.1	119.6	112.9	110.3	104.9	98.7	90.3	82.7
117.5°	120.5	*120.5*	121.4	123.6	121.4	115.2	109.4	102.7	97.4	88.9	82.3
120°	136.5	*135.6*	135.6	131.2	130.3	124.5	120.5	113.4	104.5	96.0	86.7
122.5°	131.2	*130.7*	131.2	124.1	123.6	122.3	121.0	119.6	108.1	103.2	91.2
125°	104.9	*104.1*	103.6	100.9	105.4	102.3	101.4	104.5	96.9	92.5	85.8
127.5°	93.8	*92.9*	92.5	91.6	94.3	88.9	88.0	88.9	83.2	77.8	73.8
130°	89.8	*88.5*	88.5	91.6	95.6	91.2	86.3	82.7	80.5	76.9	70.3
132.5°	84.9	*84.9*	85.4	89.4	96.5	91.6	82.7	75.6	74.7	75.1	72.0
135°	83.6	*83.2*	83.6	82.3	81.8	79.2	75.1	69.4	68.0	71.6	68.0
137.5°	85.8	*85.4*	84.9	81.4	77.4	75.1	74.3	70.7	67.1	64.9	61.4
140°	84.9	*84.9*	84.5	83.6	80.9	76.5	75.6	72.0	68.5	64.5	60.0
142.5°	86.3	*87.6*	88.5	89.4	88.5	83.6	78.7	72.9	68.9	66.7	61.8
145°	106.3	*106.3*	106.3	104.5	101.4	97.4	93.8	89.8	86.7	79.6	72.9
147.5°	88.0	*88.0*	87.6	88.0	88.0	86.3	85.8	84.5	84.9	81.4	74.7
150°	60.9	*62.3*	62.3	64.5	65.4	64.5	64.5	65.4	64.0	63.6	60.0
152.5°	49.4	*48.9*	48.0	48.9	48.9	49.4	49.4	48.5	48.0	48.0	45.8
155°	43.6	*43.6*	43.6	43.1	42.2	42.7	43.1	43.1	41.8	40.9	39.1
157.5°	34.7	*34.2*	34.2	35.1	35.1	35.1	35.1	35.1	35.1	35.6	36.0
160°	29.3	*28.5*	28.9	28.9	29.3	29.8	29.3	29.8	29.8	30.2	29.8
162.5°	24.0	*23.6*	23.6	24.0	24.5	24.9	25.3	25.3	25.8	26.7	27.1
165°	21.3	*21.3*	21.3	21.8	21.8	22.2	22.7	23.1	24.0	25.3	25.8
167.5°	20.0	*20.0*	20.0	20.0	20.5	20.9	21.8	23.1	24.0	25.3	25.3
170°	19.6	*19.6*	20.0	20.0	20.0	20.5	22.2	23.6	24.0	24.5	24.5
172.5°	20.5	*20.5*	20.5	20.5	20.5	21.3	23.6	24.0	24.0	24.0	24.5
175°	21.3	*21.3*	20.9	20.9	21.3	21.8	22.2	24.5	25.3	25.8	26.7
177.5°	20.0	*20.0*	20.0	20.5	20.5	20.9	21.3	22.2	22.2	23.1	24.5
180°	22.2	*22.2*	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4
2.5°	104.5	112.1	102.7	92.9	85.8	89.8	94.3	90.7	86.7	87.2	79.6
5°	62.7	64.5	65.4	56.9	47.1	52.5	64.0	60.0	46.2	25.8	22.2
7.5°	60.5	57.8	56.9	63.1	57.4	38.2	29.8	27.1	36.0	43.1	45.4
10°	71.6	68.5	61.8	50.7	44.9	42.2	41.4	39.6	34.2	26.7	25.3
12.5°	82.3	78.7	72.5	67.1	59.6	49.8	43.6	41.8	44.9	50.2	50.2
15°	92.9	88.0	80.0	72.9	67.1	56.5	48.5	41.4	40.5	41.8	41.8
17.5°	100.5	95.2	85.8	76.0	65.8	55.6	46.2	39.1	36.0	35.1	35.1
20°	108.1	103.2	92.0	81.4	68.9	56.9	46.2	38.7	35.1	33.8	33.4
22.5°	117.8	111.6	99.2	87.6	72.5	57.8	45.8	39.1	35.1	32.9	32.5
25°	129.0	121.8	107.6	93.8	76.0	58.7	46.2	39.6	35.6	32.9	32.5
27.5°	137.8	130.3	116.5	100.9	80.5	60.9	48.0	40.5	36.0	33.4	32.9
30°	148.1	140.1	124.5	108.5	85.8	64.5	51.6	43.1	37.8	34.2	34.2
32.5°	163.6	153.0	135.6	115.6	91.2	68.5	55.6	46.2	39.6	36.9	36.9
35°	189.0	178.3	155.2	129.4	96.9	72.5	58.7	49.4	41.8	38.2	38.2
37.5°	229.5	213.4	187.7	152.1	106.3	75.6	62.3	51.6	43.1	38.2	37.4
40°	253.0	235.2	202.8	169.0	117.8	79.6	64.9	53.4	44.0	38.7	38.2
42.5°	279.3	258.8	217.0	173.4	125.4	88.9	68.9	55.1	44.9	40.0	39.1
45°	306.8	287.3	249.5	197.0	143.2	101.8	75.6	58.7	47.6	41.8	40.9
47.5°	357.1	333.1	284.1	230.3	169.4	122.3	90.3	64.5	50.7	43.6	42.7
50°	470.0	447.8	379.7	299.3	211.2	151.6	112.9	76.5	55.6	44.9	43.6
52.5°	623.0	583.4	506.5	405.5	294.8	212.6	150.7	103.2	63.1	46.2	44.0
55°	845.3	801.3	687.5	555.8	403.8	308.6	228.1	155.2	89.8	47.6	43.6
57.5°	1066.3	1013.0	917.4	737.3	542.5	393.5	305.0	227.2	130.7	53.4	44.9
60°	1224.6	1159.7	1041.4	876.4	658.1	462.9	344.6	247.7	145.4	54.7	46.2
62.5°	1318.0	1236.6	1088.1	891.1	685.7	491.8	360.6	233.9	125.0	53.4	48.0
65°	*1334.9*	*1242.4*	*1088.1*	*865.8*	*657.2*	*466.5*	*348.6*	*216.1*	*98.7*	*51.1*	*49.4*
67.5°	1238.0	1151.7	1021.4	795.1	583.0	400.6	300.2	177.9	75.1	49.4	48.9
70°	1016.1	951.2	844.9	649.7	473.1	325.9	238.8	137.0	60.9	47.1	46.2
72.5°	792.8	732.8	653.2	509.6	366.0	258.4	182.3	107.2	54.2	45.4	44.9
75°	623.9	579.0	513.2	402.4	275.3	195.7	138.3	80.9	48.9	44.5	43.6
77.5°	510.5	481.1	413.1	307.3	205.4	145.4	103.2	64.5	46.7	43.6	43.1
80°	397.1	372.6	329.9	229.9	147.2	109.4	81.4	56.9	45.4	43.1	42.7
82.5°	283.3	274.8	238.8	178.8	122.7	93.8	73.4	54.7	44.9	42.7	42.2
85°	236.6	224.6	197.9	155.2	112.9	89.4	70.3	53.8	44.9	42.7	42.2
87.5°	228.6	217.9	193.4	148.1	106.3	84.0	67.1	52.0	44.0	41.8	41.8
90°	201.9	191.2	172.5	133.4	97.8	78.3	62.7	49.4	42.2	40.0	40.0
92.5°	178.8	172.5	154.7	122.3	93.8	75.1	60.5	48.0	41.4	39.6	39.1
95°	151.2	145.9	132.1	110.3	88.0	71.6	58.7	46.7	40.5	38.7	38.7
97.5°	125.4	121.0	110.3	93.4	76.0	63.6	52.9	44.0	39.1	37.8	37.8
100°	110.7	107.2	97.8	84.0	70.3	59.6	51.1	43.6	38.7	36.9	36.9
102.5°	104.9	101.4	92.0	79.6	66.7	56.9	49.8	42.7	38.2	36.5	36.0
105°	100.5	96.9	88.5	75.6	63.1	54.2	47.1	41.8	37.4	36.0	35.6
107.5°	96.0	92.0	84.0	71.1	60.0	51.6	45.4	40.5	36.9	35.6	35.6
110°	91.2	87.6	80.0	67.6	57.8	49.8	44.5	40.0	36.9	35.6	35.6

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

Scaled Data Report

REPORT NUMBER: P1045747
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	85.8	82.3	75.1	64.0	55.6	48.5	43.6	39.6	36.9	35.6	35.6
115°	79.6	76.5	69.8	60.5	52.9	46.7	42.2	38.7	36.0	35.1	35.1
117.5°	77.8	74.3	67.6	59.1	52.0	45.4	41.4	37.8	35.6	34.7	34.7
120°	81.8	76.9	69.8	61.8	52.0	44.5	40.5	37.4	35.1	34.2	34.2
122.5°	87.2	83.2	75.1	60.5	50.2	43.6	39.6	36.9	34.7	34.2	34.2
125°	82.3	79.6	72.0	56.0	48.5	42.7	39.1	36.9	35.1	34.2	34.2
127.5°	72.0	69.4	63.6	53.4	46.7	41.8	38.7	36.9	35.6	34.2	34.2
130°	68.0	64.5	59.1	51.1	44.9	40.5	38.2	36.9	35.6	33.8	33.4
132.5°	69.8	66.7	58.3	48.0	42.2	38.7	36.9	36.0	33.4	31.6	31.1
135°	65.8	62.7	54.2	45.8	40.9	38.2	36.5	33.8	31.1	28.9	28.9
137.5°	58.7	55.1	50.2	44.0	40.5	39.1	36.9	33.4	29.8	28.0	28.0
140°	58.3	54.2	49.8	43.6	39.6	36.0	33.4	29.8	27.1	26.2	25.8
142.5°	59.1	56.5	50.2	43.1	37.8	33.4	30.2	27.6	25.8	24.5	24.5
145°	68.5	64.5	56.5	47.1	40.9	35.6	31.1	27.6	24.9	22.7	22.2
147.5°	70.7	66.7	59.6	51.6	43.6	36.9	30.7	26.2	22.7	20.9	20.5
150°	59.1	56.5	52.5	46.2	39.1	32.5	27.1	23.1	20.9	20.0	19.6
152.5°	44.9	44.0	41.4	36.9	32.0	27.6	24.0	21.8	20.5	20.0	19.6
155°	38.2	37.8	35.1	31.6	27.6	24.5	22.2	20.9	20.0	20.0	19.6
157.5°	35.6	34.7	32.5	28.9	25.3	23.6	21.3	20.5	20.0	20.0	20.0
160°	29.8	28.9	27.1	25.8	23.6	22.2	20.9	20.5	20.0	20.0	19.6
162.5°	26.7	25.8	24.9	23.6	23.1	22.7	22.2	21.3	20.9	20.5	20.5
165°	25.3	24.9	23.6	23.1	23.1	23.6	23.6	22.7	21.8	20.9	20.9
167.5°	24.9	24.5	23.6	23.1	24.0	24.5	24.9	24.0	23.1	21.8	21.3
170°	24.9	24.9	24.5	24.0	24.5	24.9	25.3	25.3	24.9	24.0	24.0
172.5°	24.9	25.3	24.9	24.9	24.9	24.9	24.9	25.8	25.8	25.3	25.3
175°	26.7	26.7	25.3	24.9	25.3	25.8	26.2	25.8	25.8	26.2	26.2
177.5°	24.5	25.3	27.1	27.6	28.5	28.5	27.6	27.1	25.8	25.3	25.3
180°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2

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: SP1-2501-332-8

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

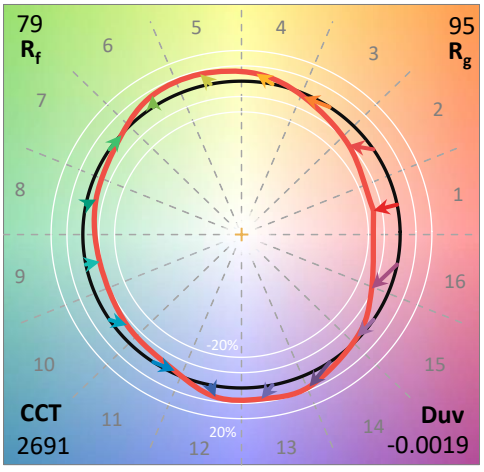
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

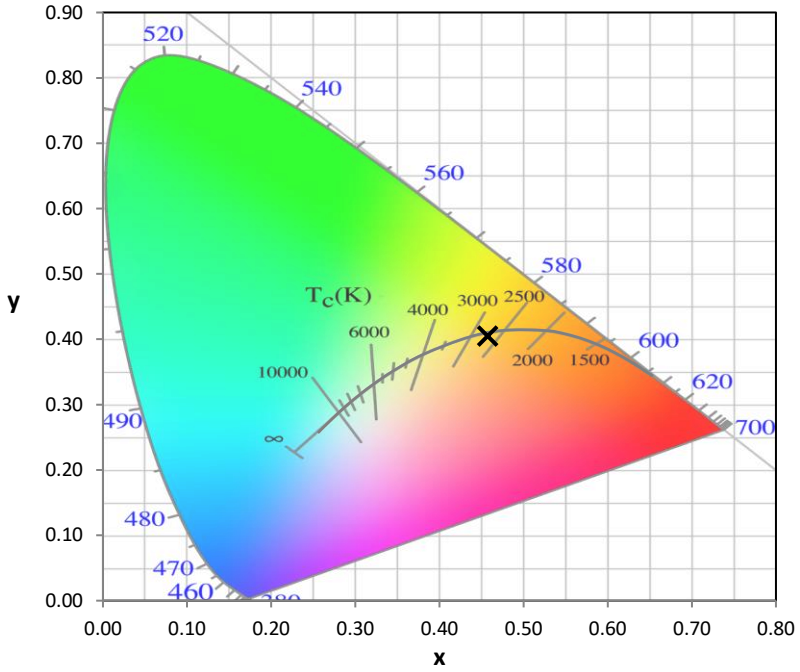
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

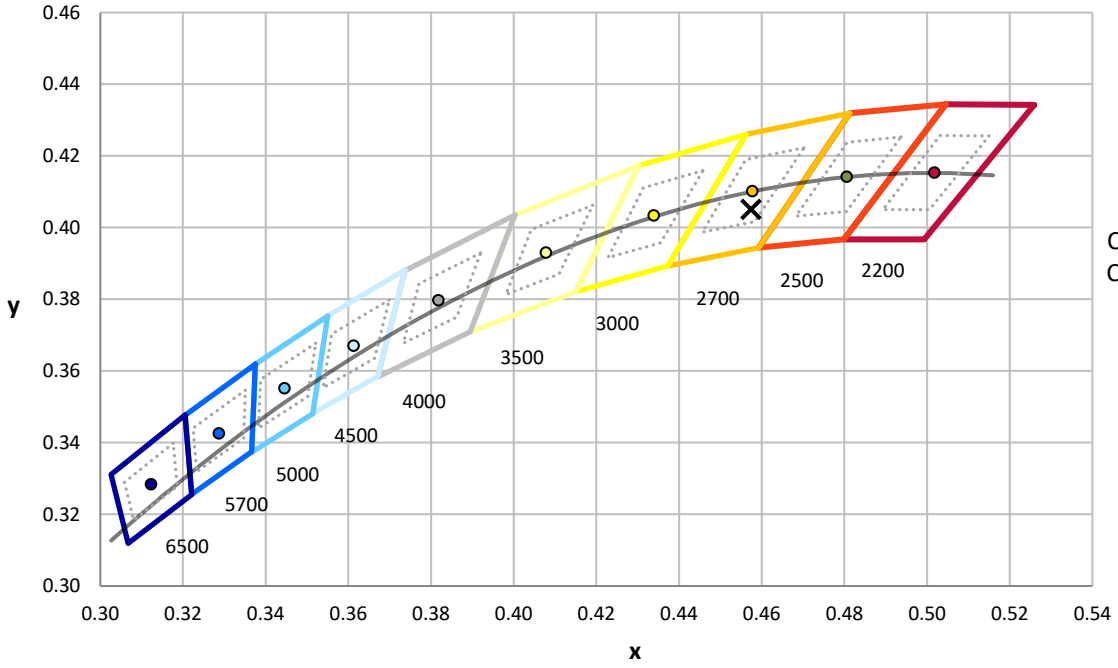
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

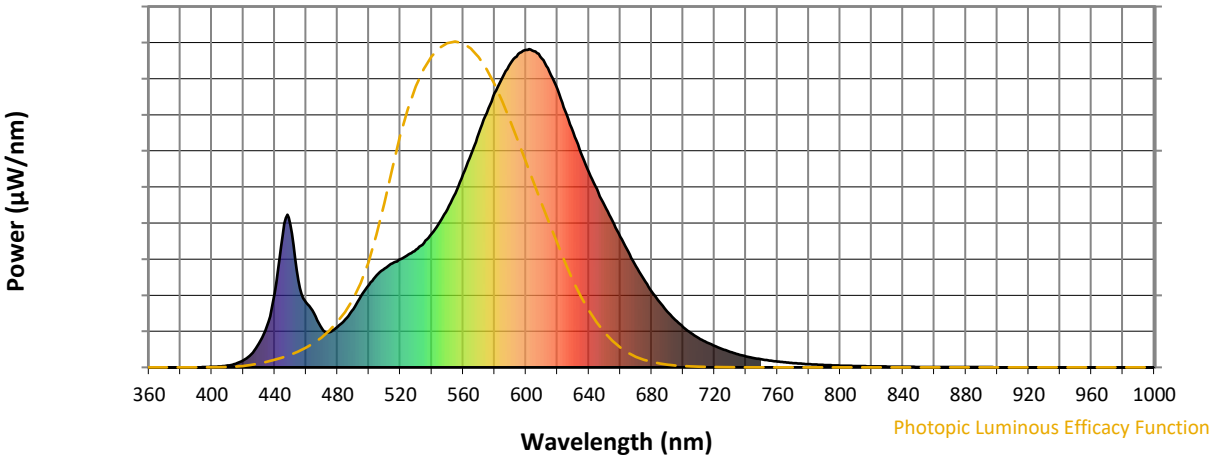


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

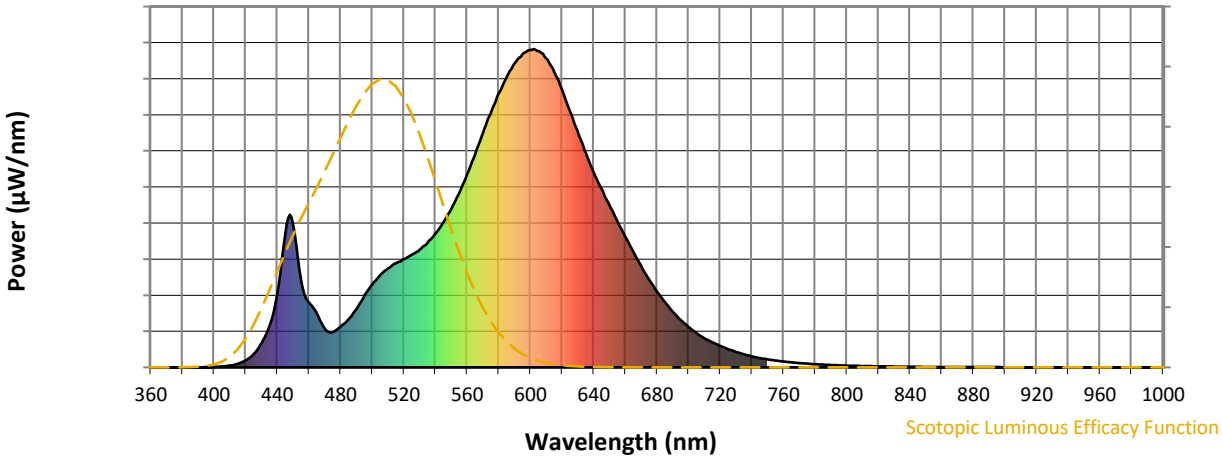


Photopic Lumens: NR

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

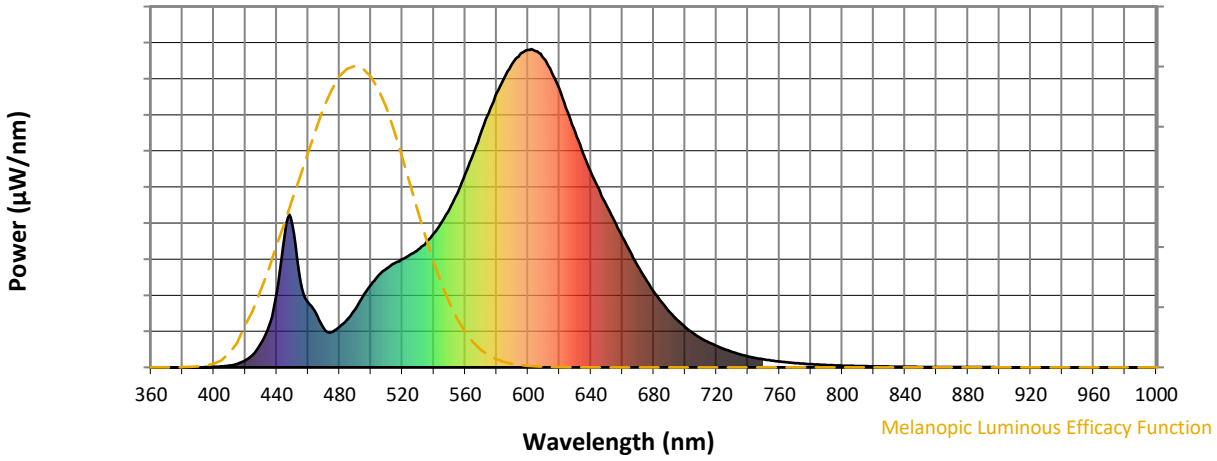


Scotopic Lumens: NR **S/P: 1.18**

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			

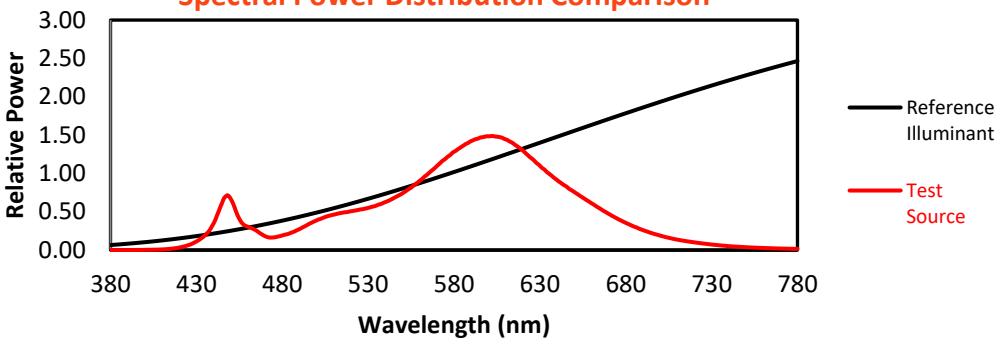
REPORT NUMBER: SP1-2501-332-8

TM-30-18

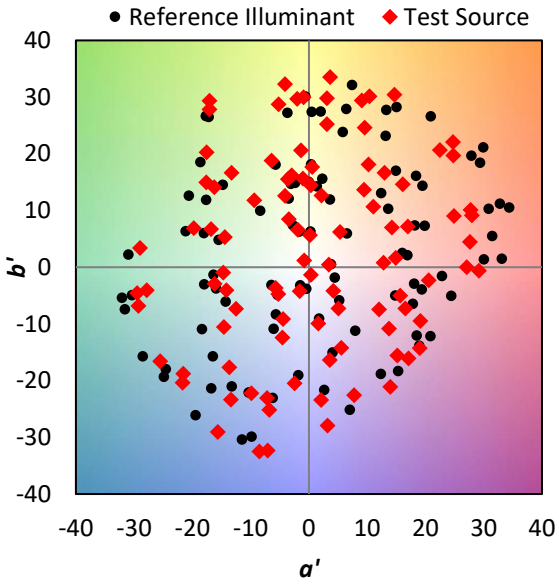
Summary

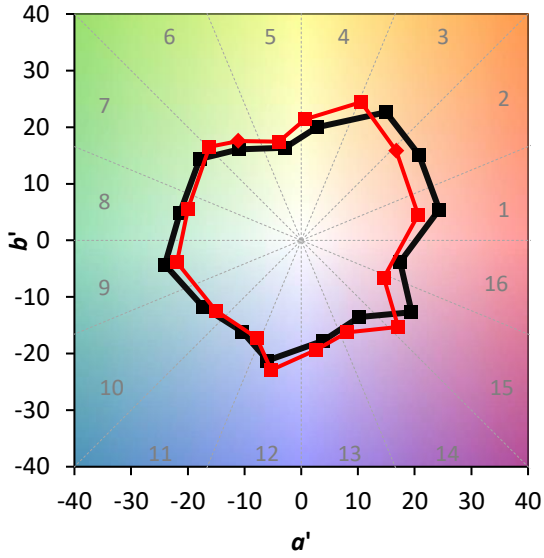
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

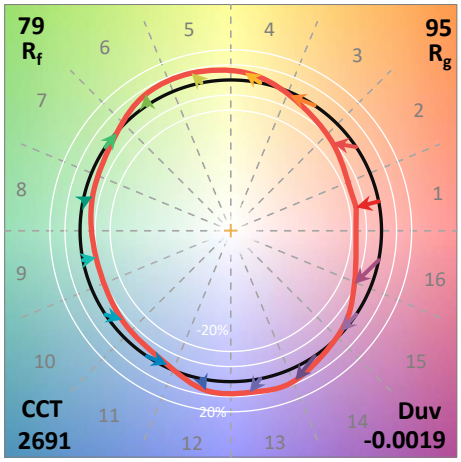
Spectral Power Distribution Comparison

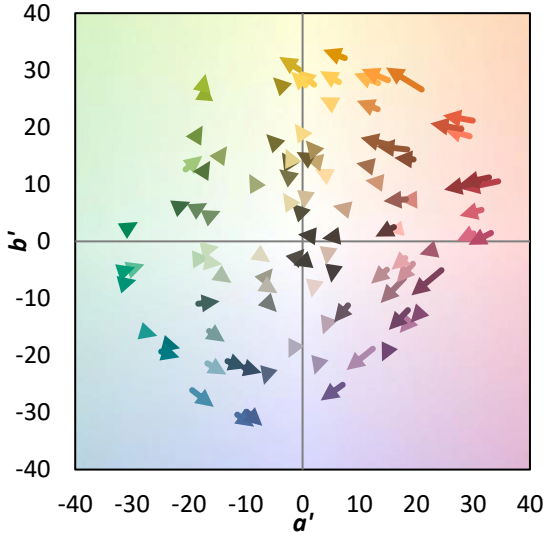


Color Vector Graphics







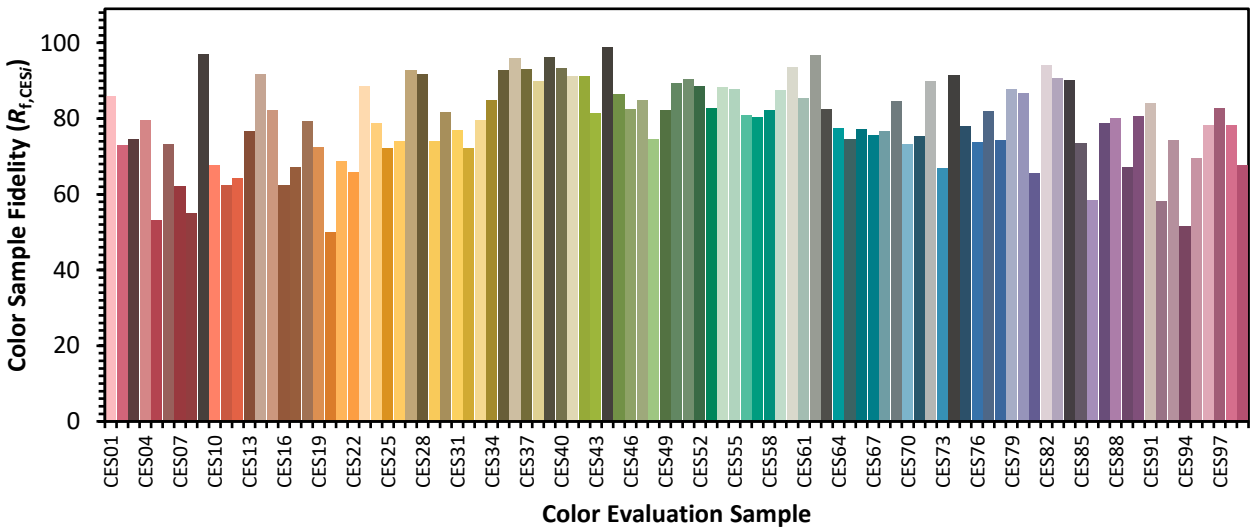


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

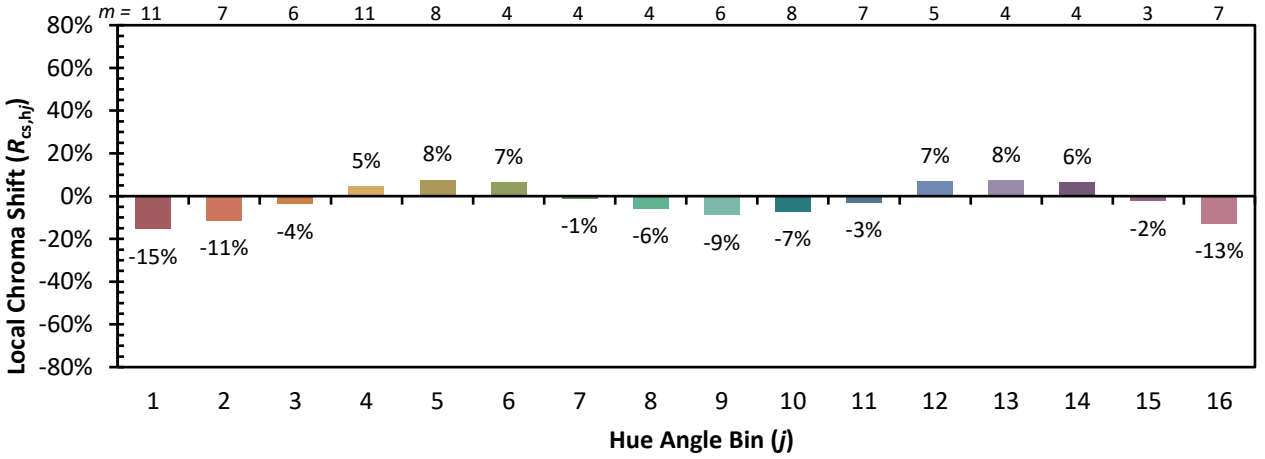
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

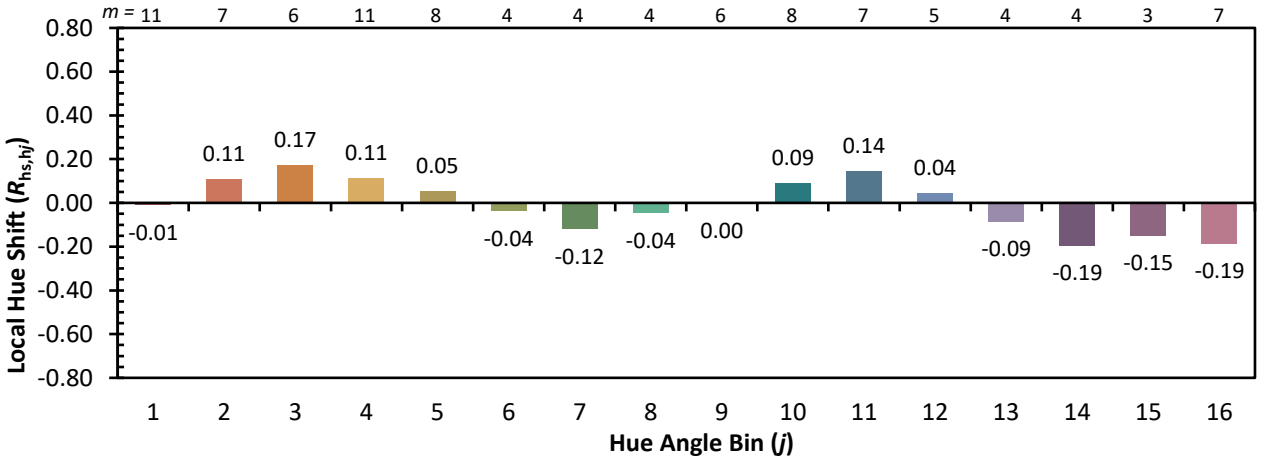


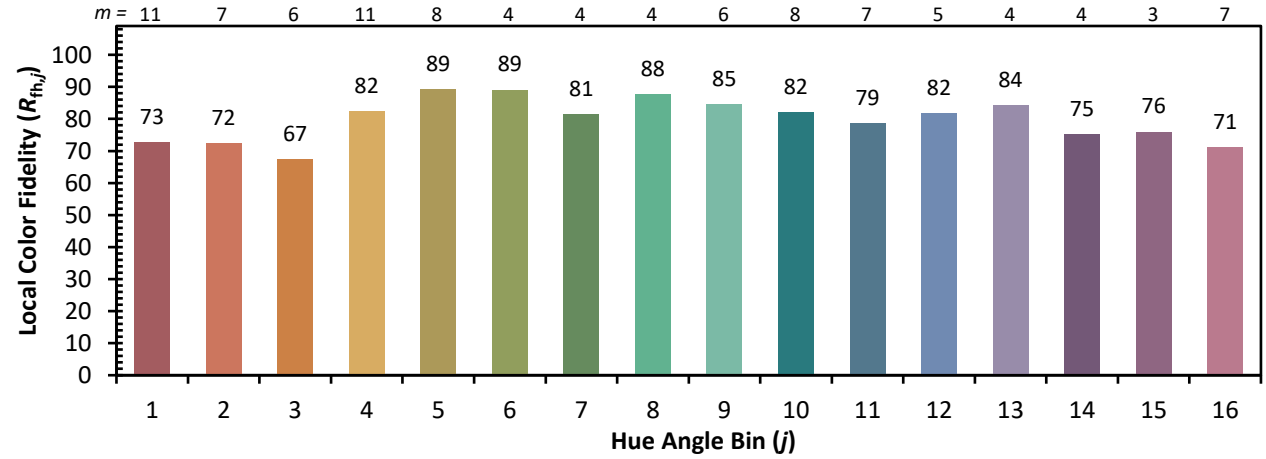
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Color Rendition by Hue-Angle Bin



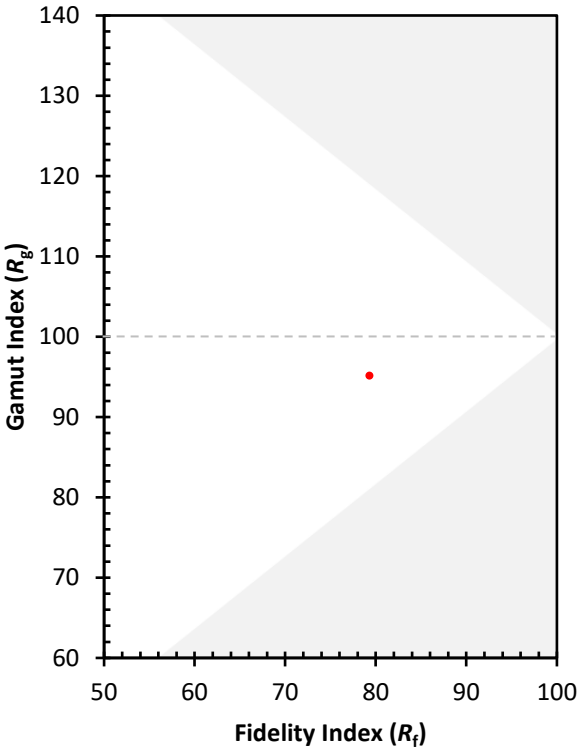


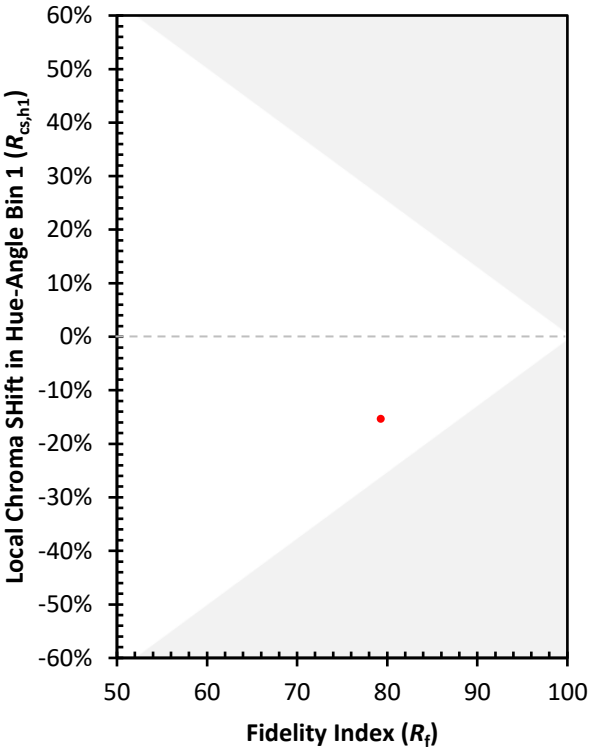


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Measure Comparisons





(END OF REPORT)