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: P1046422

Luminaire Tested: **FFX-CLB-40-727-U-FR-T4-UPLR**

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:	P1046422
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-T4-UPLR
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION AND UPLIGHT REFLECTOR
Light Source:	(4) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5744.1 lumens
Efficiency:	N/A
Efficacy:	145.8 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U3 - G3

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

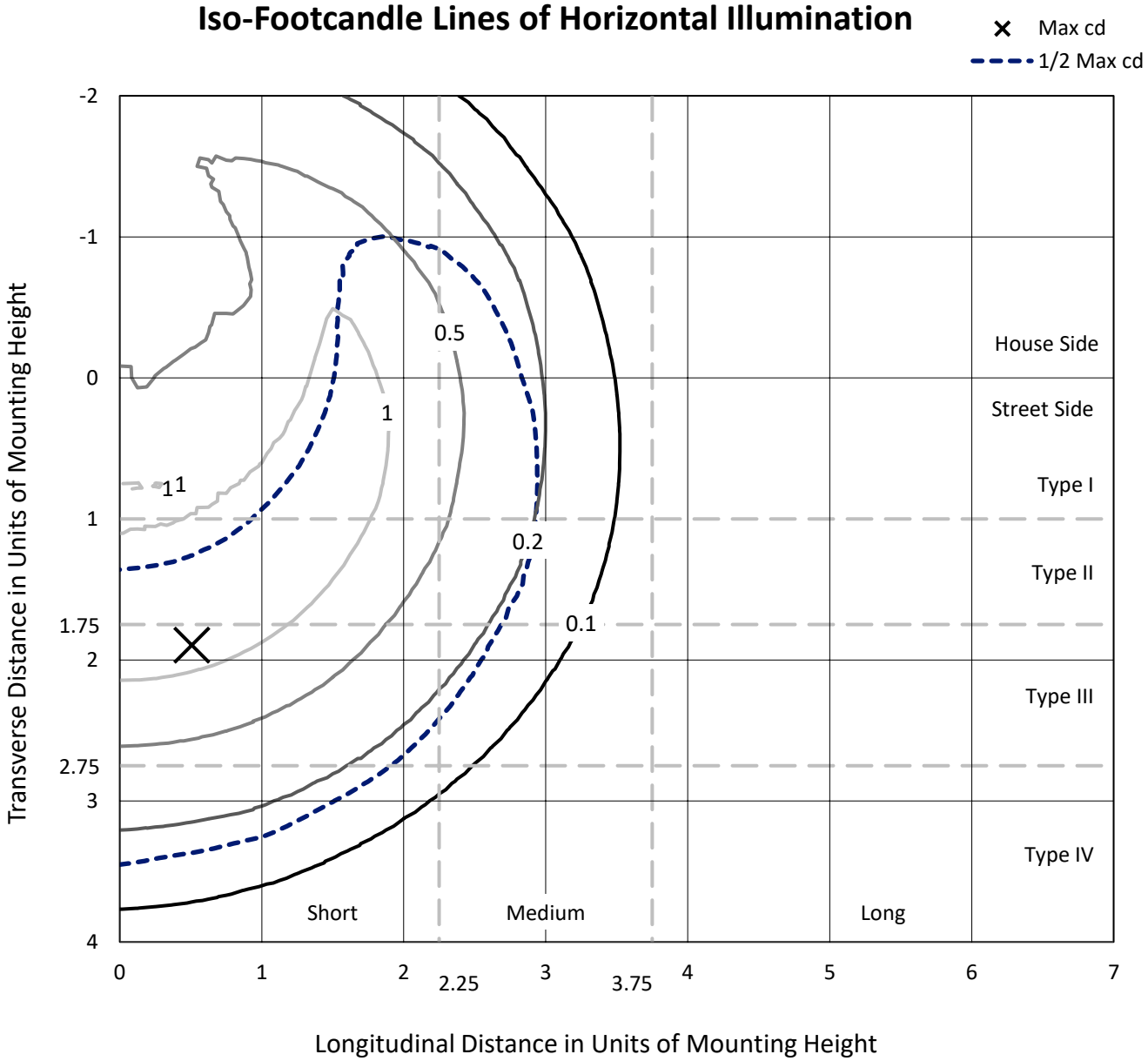


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Iso-Footcandle Lines of Horizontal Illumination



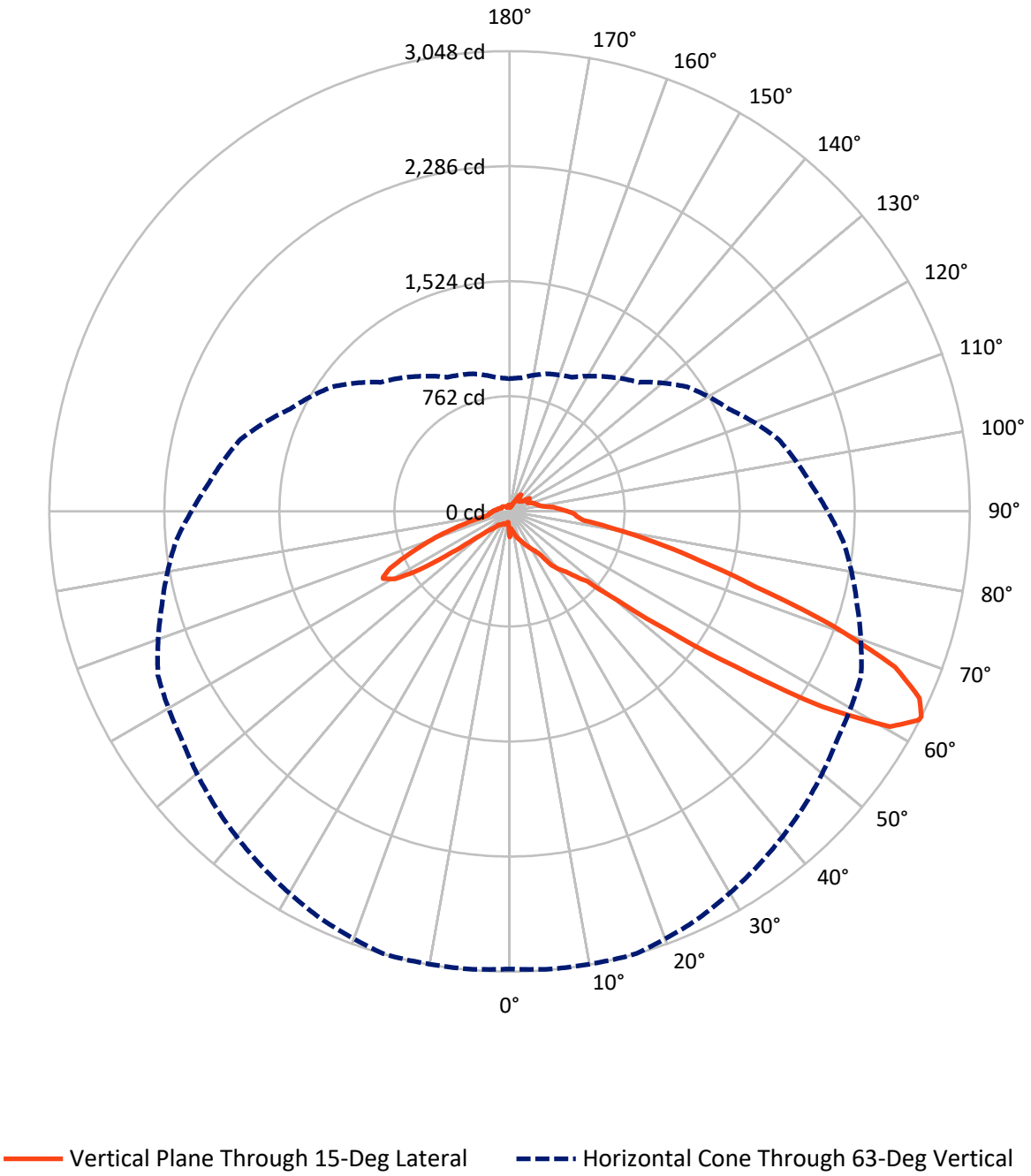
Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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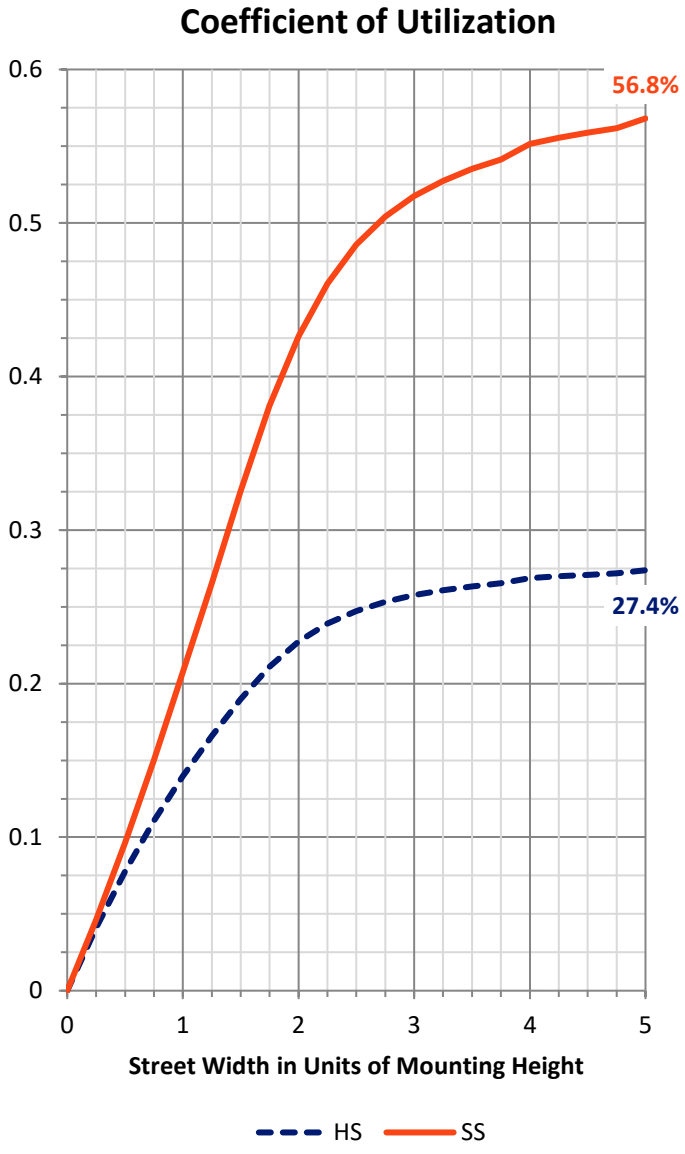
REPORT NUMBER: P1046422
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.5	264.7	1889.2
	% Fixture	28.3	4.6	32.9
Street Side	Lumens	3401.5	453.4	3854.9
	% Fixture	59.2	7.9	67.1
Total	Lumens	5026.0	718.1	5744.1
	% Fixture	87.5	12.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.4	0.2
10°-20°	37.6	0.7
20°-30°	81.5	1.4
30°-40°	167.5	2.9
40°-50°	345.4	6.0
50°-60°	1136.3	19.8
60°-70°	1881.4	32.8
70°-80°	986.8	17.2
80°-90°	378.9	6.6
90°-100°	228.9	4.0
100°-110°	144.2	2.5
110°-120°	106.8	1.9
120°-130°	90.9	1.6
130°-140°	59.3	1.0
140°-150°	51.5	0.9
150°-160°	23.6	0.4
160°-170°	9.6	0.2
170°-180°	3.3	0.1
0°-90°	5026.0	87.5
0°-180°	5744.1	100.0



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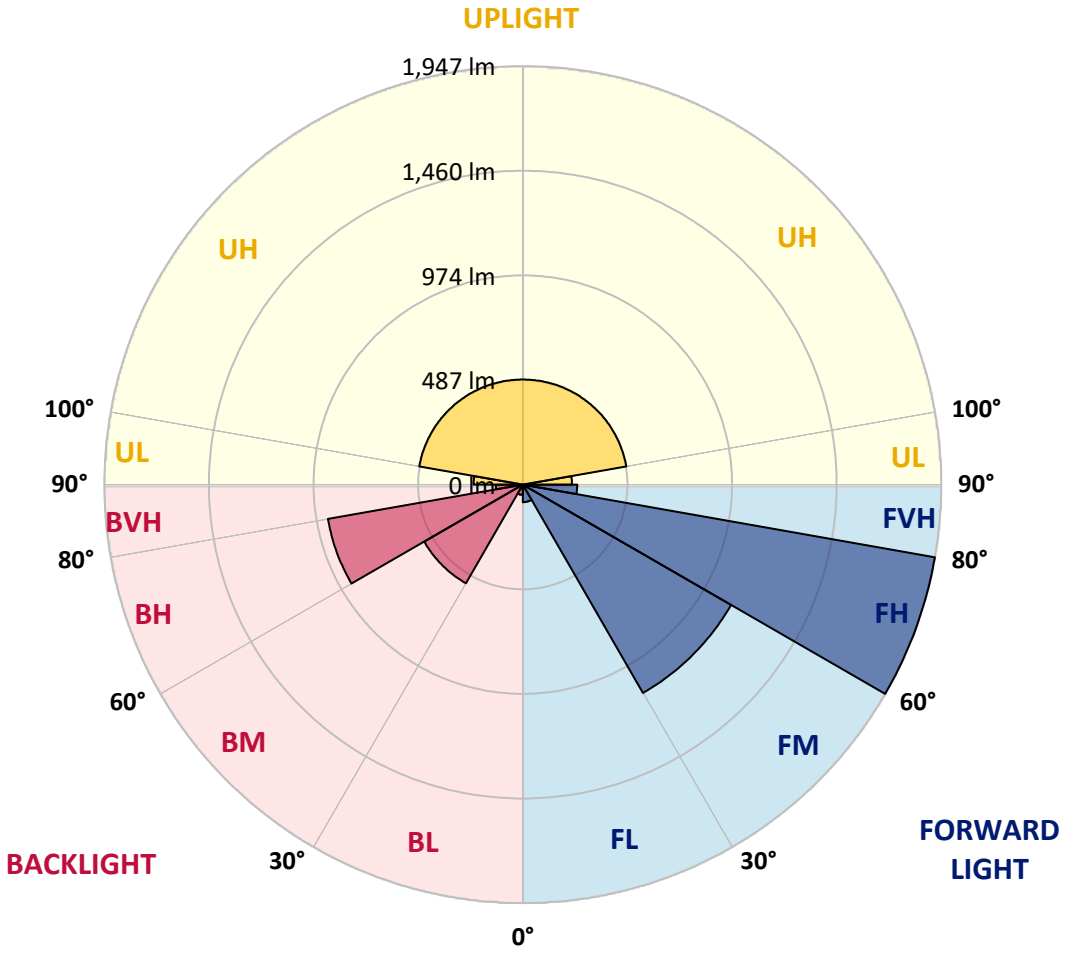
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	81.7	1.4			
FM	(30°-60°)	1119.3	19.5			
FH	(60°-80°)	1947.3	33.9			G2/5000
FVH	(80°-90°)	253.2	4.4			G3/500
BL	(0°-30°)	47.8	0.8	B0/110		
BM	(30°-60°)	530.0	9.2	B1/1000		
BH	(60°-80°)	920.9	16.0	B2/1000		G2/1000
BVH	(80°-90°)	125.8	2.2			G2/225
UL	(90°-100°)	228.9	4.0		U3/500	
UH	(100°-180°)	489.2	8.5		U3/500	

BUG Rating: B2-U3-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
0°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
2.5°	104.4	104.4	119.5	122.1	136.5	141.0	133.1	127.0	141.7	171.9	176.8
5°	113.5	115.7	115.4	115.0	115.7	129.3	143.3	136.8	112.3	89.3	89.3
7.5°	128.6	129.3	128.9	128.6	123.7	115.7	112.3	122.5	128.9	109.7	92.0
10°	139.1	138.4	138.0	137.6	138.4	141.4	140.2	127.8	115.4	108.9	105.2
12.5°	159.1	159.5	158.3	157.6	156.8	155.7	154.6	157.2	150.4	131.9	119.5
15°	174.2	174.2	177.2	176.4	176.4	172.7	167.4	159.8	150.8	145.9	135.0
17.5°	190.0	190.4	190.0	190.0	188.5	183.6	177.9	171.2	161.7	153.4	144.0
20°	205.5	205.5	205.1	204.7	204.3	200.6	193.4	184.3	175.7	167.8	158.0
22.5°	221.7	222.8	223.6	222.8	221.7	217.9	210.0	201.3	193.0	181.7	171.2
25°	244.7	245.0	244.3	243.5	242.0	237.1	231.1	222.0	211.9	199.8	185.9
27.5°	266.5	267.3	266.9	266.9	263.9	259.7	253.7	241.6	230.3	216.4	202.1
30°	291.4	290.7	288.8	289.1	287.3	283.9	277.1	266.5	252.2	235.6	219.8
32.5°	315.9	315.9	313.3	312.1	312.1	307.6	300.1	289.1	275.6	257.9	242.4
35°	342.7	349.5	356.3	358.9	358.9	352.5	343.4	329.1	317.4	299.0	279.7
37.5°	471.2	467.1	450.5	452.4	446.7	444.1	438.1	426.0	409.8	381.5	352.1
40°	516.5	515.7	503.3	501.8	499.1	490.5	484.1	475.8	470.1	436.2	392.1
42.5°	524.4	528.5	545.1	549.3	570.8	557.6	531.9	485.2	473.5	447.9	429.4
45°	613.4	614.9	614.9	615.6	610.0	600.2	596.8	567.0	543.6	506.7	472.0
47.5°	701.9	705.3	692.1	702.7	717.4	697.4	688.4	663.9	631.8	603.2	546.3
50°	907.8	921.0	923.6	924.0	930.4	928.9	915.3	881.4	849.4	783.8	720.4
52.5°	1288.9	1301.7	1307.4	1293.8	1273.8	1264.8	1268.2	1254.2	1180.0	1109.5	980.9
55°	1786.5	1808.8	1808.8	1823.1	1817.1	1774.1	1771.5	1680.2	1560.3	1481.9	1370.0
57.5°	2452.3	2418.7	2437.6	2458.0	2416.5	2371.2	2303.8	2208.4	2033.1	1897.8	1735.6
60°	2945.8	2932.2	2894.9	2871.9	2768.2	2678.5	2625.3	2555.6	2422.5	2244.6	2027.8
62.5°	3036.3	3046.1	3043.4	3043.4	2960.5	2853.0	2745.6	2643.4	2560.9	2377.7	2206.1
63°	3030.6	3042.7	3047.6	3046.1	2971.4	2865.5	2758.8	2646.1	2569.5	2382.6	2216.7
65°	2982.3	2992.5	2983.9	2980.8	2933.7	2862.1	2742.2	2630.6	2560.9	2360.7	2218.2
67.5°	2788.6	2786.3	2753.9	2768.6	2738.8	2698.8	2586.9	2476.8	2428.5	2209.9	2078.7
70°	2252.1	2236.3	2271.7	2292.8	2260.4	2244.6	2111.5	2039.1	1976.9	1810.7	1704.7
72.5°	1721.7	1688.9	1694.9	1714.2	1673.4	1662.5	1605.6	1546.0	1516.2	1412.6	1294.9
75°	1350.0	1332.3	1299.5	1304.8	1271.2	1260.3	1254.2	1236.9	1225.2	1138.9	1022.4
77.5°	1009.6	1008.8	981.3	977.1	953.0	971.1	964.0	990.0	984.3	915.7	827.1
80°	706.5	702.3	709.5	706.9	701.2	711.8	700.4	714.8	714.8	669.9	632.6
82.5°	461.1	469.3	492.0	497.2	505.5	530.4	490.5	469.3	463.7	458.8	440.7
85°	457.7	459.9	450.1	451.3	447.5	438.1	445.2	448.6	443.0	415.8	375.9
87.5°	431.3	434.3	426.4	428.6	414.7	417.7	422.2	424.9	422.2	398.1	364.9
90°	363.4	366.8	374.0	374.0	375.1	375.9	368.7	372.8	370.2	347.2	323.1
92.5°	322.3	325.3	325.7	326.1	323.1	332.9	321.2	314.0	312.1	293.7	276.3
95°	294.8	291.4	290.7	291.4	289.9	289.5	282.0	276.7	274.4	259.7	242.8
97.5°	230.7	232.6	231.8	233.7	230.0	229.6	223.2	216.4	214.1	202.1	190.8
100°	202.4	202.1	202.8	203.2	200.9	198.3	193.8	188.9	186.2	177.2	166.3
102.5°	190.0	189.6	191.1	191.5	189.6	187.7	184.0	181.0	178.7	170.4	158.3
105°	182.1	181.0	182.8	182.8	178.7	177.6	174.9	174.5	173.0	163.2	151.5
107.5°	171.2	169.3	171.5	171.2	169.6	168.5	166.3	164.7	163.6	155.3	142.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	16°	25°	35°	45°	55°	65°	75°	85°
110°	161.0	158.3	*159.5*	160.2	161.4	160.6	158.7	155.7	152.7	145.9	135.0
112.5°	142.1	143.6	*143.3*	143.3	144.4	144.8	141.4	139.5	137.6	132.3	125.2
115°	135.0	135.0	*135.0*	135.0	131.9	130.8	127.4	125.2	124.8	118.4	113.9
117.5°	129.3	130.1	*131.9*	133.1	136.8	134.6	127.0	122.1	120.3	117.6	112.7
120°	152.3	149.7	*147.0*	146.6	147.0	145.5	144.0	140.6	136.1	128.9	115.4
122.5°	163.2	156.4	*157.6*	157.2	154.6	155.7	156.1	156.4	153.4	142.1	121.0
125°	136.8	135.0	*136.1*	137.2	137.6	137.2	136.5	139.9	135.7	131.9	116.1
127.5°	109.3	108.6	*106.3*	105.9	105.2	105.6	105.6	106.7	102.9	99.1	98.4
130°	104.0	102.5	*102.9*	103.3	102.9	100.7	99.1	97.3	96.9	93.1	87.8
132.5°	94.2	95.0	*101.4*	102.2	106.7	104.0	96.1	90.9	91.6	93.5	91.6
135°	88.2	87.8	*92.7*	93.1	99.9	98.0	91.6	85.6	85.6	90.1	88.2
137.5°	90.1	90.9	*91.2*	91.6	91.2	90.9	90.5	87.8	86.0	85.6	81.1
140°	96.9	96.5	*92.7*	93.1	92.7	92.7	95.0	96.9	90.5	84.8	77.3
142.5°	101.4	102.5	*101.0*	102.9	106.3	103.3	99.5	94.6	90.9	87.1	82.6
145°	137.6	135.0	*133.8*	133.1	130.8	124.4	120.6	115.7	111.2	105.2	97.6
147.5°	124.8	125.5	*123.3*	124.0	121.0	118.8	118.0	118.4	116.9	113.5	105.6
150°	99.1	99.9	*97.6*	96.5	95.4	95.4	95.4	96.1	94.2	92.0	88.2
152.5°	69.4	68.6	*67.9*	67.5	66.7	66.0	66.0	66.3	64.5	63.7	60.7
155°	63.7	63.3	*60.3*	59.6	60.3	61.1	61.4	60.3	58.8	57.3	53.2
157.5°	49.8	48.6	*48.3*	49.0	49.0	48.6	47.9	48.6	47.1	46.7	46.0
160°	40.7	40.3	*40.7*	40.7	41.1	41.1	40.7	40.7	40.0	40.3	40.3
162.5°	34.7	34.7	*34.7*	34.3	35.1	35.4	35.1	35.1	35.4	36.6	37.3
165°	29.8	29.8	*30.2*	30.2	30.5	30.5	30.9	31.3	32.0	34.7	36.9
167.5°	27.9	27.9	*28.3*	28.3	28.7	29.0	29.8	31.3	33.6	36.6	37.7
170°	27.5	27.5	*27.5*	27.5	27.9	28.3	29.8	32.0	34.7	36.6	35.4
172.5°	28.7	28.7	*29.0*	29.0	29.0	30.5	31.7	33.6	35.1	35.4	34.3
175°	29.8	29.4	*29.8*	29.8	30.2	31.3	32.8	33.6	34.3	34.7	35.1
177.5°	29.0	29.0	*29.0*	29.4	29.4	29.8	30.5	30.9	31.7	32.4	33.6
180°	28.3	28.3	*28.3*	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6	169.6
2.5°	176.8	171.9	133.8	114.6	130.8	162.5	165.5	143.3	111.2	77.3	70.5
5°	94.2	99.5	111.2	110.8	103.3	96.5	88.2	82.9	91.6	87.8	90.1
7.5°	85.2	80.3	82.2	96.1	93.9	71.3	64.5	63.0	70.5	87.8	86.0
10°	103.7	102.2	96.5	85.2	81.4	84.4	87.1	85.2	78.4	68.2	66.7
12.5°	117.2	115.4	116.1	123.3	114.6	95.0	84.1	80.7	84.4	99.5	102.5
15°	130.4	127.0	122.1	112.0	103.7	98.4	92.0	85.2	87.5	83.3	81.8
17.5°	139.5	134.2	124.0	116.5	108.2	101.4	95.8	88.6	83.7	82.6	82.9
20°	151.5	145.9	135.0	126.3	116.1	107.1	97.3	89.7	84.8	82.9	82.9
22.5°	165.5	158.7	146.3	134.2	122.9	111.2	99.5	91.2	86.7	84.8	84.1
25°	180.2	173.4	158.0	145.1	130.8	118.0	105.9	95.4	90.5	88.2	86.3
27.5°	195.3	187.0	171.5	155.7	140.2	125.2	112.3	101.4	94.6	90.9	91.2
30°	211.9	205.1	187.7	169.6	150.4	132.7	120.3	107.8	99.5	95.4	95.8
32.5°	234.1	223.2	202.4	181.7	162.9	143.3	127.4	113.1	104.0	101.4	101.8
35°	271.1	257.1	231.8	203.6	178.3	155.3	135.3	118.4	107.8	103.7	103.3
37.5°	337.8	318.9	289.9	256.7	220.2	182.8	150.4	124.4	111.2	104.4	103.3
40°	370.2	344.6	308.0	279.3	254.5	222.4	185.5	146.3	116.9	108.2	107.1
42.5°	413.6	392.1	344.6	288.8	255.6	228.8	202.8	177.6	141.0	118.4	114.2
45°	455.4	436.2	398.9	344.2	294.8	253.0	214.1	186.6	164.0	141.0	139.1
47.5°	525.9	505.5	443.3	394.7	342.7	295.2	254.5	209.2	179.8	163.6	163.6
50°	702.7	665.4	603.9	529.3	445.6	368.7	311.0	255.6	220.2	195.7	194.5
52.5°	949.6	896.9	806.4	723.8	625.0	536.1	446.4	349.8	298.2	262.8	262.4
55°	1306.3	1252.4	1131.3	972.6	851.6	745.3	652.2	546.3	464.8	407.5	403.0
57.5°	1686.6	1641.4	1518.1	1321.0	1130.2	942.1	829.4	744.9	705.7	665.8	657.5
60°	1933.2	1855.5	1743.2	1555.1	1370.3	1130.6	990.7	893.8	880.6	872.0	861.0
62.5°	2088.5	1996.9	1829.9	1604.5	1434.8	1207.9	1082.7	979.4	948.5	902.1	888.9
63°	*2106.2*	*2006.7*	*1843.8*	*1603.3*	*1436.7*	*1209.0*	*1089.5*	*979.4*	*943.2*	*887.4*	*878.8*
65°	2097.9	2005.6	1843.1	1580.0	1393.0	1186.8	1069.9	934.6	876.9	803.0	788.3
67.5°	1971.3	1872.9	1719.8	1461.2	1292.3	1082.0	953.4	809.8	722.3	649.9	633.0
70°	1604.8	1543.8	1409.2	1185.6	1057.4	893.5	780.7	668.0	573.4	497.2	478.0
72.5°	1222.9	1158.9	1057.8	912.7	818.1	705.3	598.7	511.9	433.9	383.4	384.9
75°	970.4	909.3	826.0	730.6	653.3	553.0	447.5	361.5	306.1	276.0	273.3
77.5°	781.5	739.3	666.5	578.7	511.9	407.1	313.3	238.3	197.2	179.8	174.9
80°	602.4	573.0	518.7	441.5	372.1	286.1	213.4	168.5	146.6	131.9	129.3
82.5°	428.6	410.9	365.7	311.8	264.6	219.8	187.0	157.6	135.0	122.5	118.8
85°	357.8	341.2	312.5	279.0	248.8	216.0	181.3	150.0	128.9	119.1	114.2
87.5°	347.2	331.7	304.2	268.4	235.6	200.2	165.1	135.7	120.6	111.2	108.2
90°	311.0	299.3	275.2	242.4	209.6	173.4	142.9	122.1	110.5	102.9	99.5
92.5°	268.0	257.9	237.9	210.4	182.8	156.8	133.5	116.1	104.4	96.9	94.2
95°	233.0	226.6	210.0	186.6	166.6	145.1	125.2	108.6	96.5	89.7	87.1
97.5°	185.9	178.3	166.3	150.0	135.0	119.9	105.2	93.9	85.2	80.7	78.4
100°	161.7	156.8	145.9	133.1	120.3	107.1	95.8	87.1	81.4	77.7	75.8
102.5°	152.3	148.9	138.7	125.9	113.9	101.0	89.7	81.8	77.7	74.3	72.8
105°	143.6	141.0	133.1	121.4	109.7	95.8	82.9	76.2	72.4	70.1	69.0
107.5°	134.6	131.6	124.0	112.7	102.5	90.5	79.2	70.9	66.0	63.3	63.0

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

Scaled Data Report

REPORT NUMBER: P1046422
CATALOG NUMBER: FFX-CLB-40-727-U-FR-T4-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	127.0	124.8	116.5	107.4	97.6	86.3	76.5	67.9	62.2	59.2	58.8
112.5°	119.1	116.5	108.2	99.5	91.2	81.4	72.8	65.2	59.9	56.9	56.5
115°	108.6	106.3	100.3	92.0	85.2	75.8	68.6	61.8	57.7	54.7	54.3
117.5°	109.7	103.3	95.0	87.5	81.4	74.6	68.2	63.0	56.5	53.2	53.2
120°	111.2	105.2	96.9	90.5	87.1	81.8	72.0	64.5	55.8	52.4	52.0
122.5°	109.7	110.5	105.9	99.5	92.7	83.7	71.6	63.3	54.7	52.0	52.4
125°	106.3	109.7	103.3	94.6	85.6	76.9	66.7	59.2	53.9	52.0	51.6
127.5°	96.1	95.4	87.1	80.7	74.3	67.1	60.7	56.2	52.4	50.1	49.0
130°	84.8	84.4	81.1	75.8	69.4	63.0	57.3	54.3	50.5	47.5	46.7
132.5°	89.3	88.2	81.1	72.4	65.2	59.9	56.2	52.8	47.5	44.1	43.7
135°	84.4	83.7	76.5	67.9	61.4	58.8	56.2	51.3	44.9	42.2	41.8
137.5°	77.3	74.3	68.2	63.0	59.9	59.2	55.8	50.1	44.1	41.1	40.7
140°	73.5	71.3	66.7	63.3	59.9	55.8	50.9	45.6	41.5	39.2	38.8
142.5°	78.0	77.3	70.5	64.5	59.2	54.3	49.0	45.6	41.1	38.1	37.7
145°	92.4	88.6	80.3	72.0	67.5	61.1	54.3	47.1	38.8	34.3	33.2
147.5°	101.0	97.6	89.3	80.3	70.5	60.3	49.8	40.7	34.3	30.9	30.2
150°	83.7	82.2	76.9	68.6	60.3	50.9	42.2	35.8	31.7	29.4	29.4
152.5°	58.8	58.4	56.2	51.3	46.0	40.7	36.2	32.4	30.2	28.7	28.7
155°	52.0	51.3	49.8	45.2	41.5	36.9	33.6	31.3	29.8	28.7	28.7
157.5°	44.9	44.1	43.7	40.3	37.3	34.3	31.7	29.8	28.7	27.9	27.5
160°	40.0	38.8	37.7	35.8	33.9	32.4	31.3	29.8	28.7	27.9	27.9
162.5°	37.3	36.6	34.7	33.2	32.4	32.4	32.8	32.0	29.8	28.7	28.3
165°	37.3	36.2	33.6	32.0	32.0	33.9	35.8	34.3	32.4	30.2	29.8
167.5°	37.7	36.9	34.3	33.2	34.3	36.6	38.5	38.1	35.4	33.6	33.6
170°	35.1	34.7	35.1	36.2	37.3	37.7	38.5	38.1	38.8	41.5	41.5
172.5°	33.9	34.3	36.2	38.1	40.3	40.3	38.5	38.1	41.5	45.2	46.0
175°	35.4	36.2	38.1	40.3	42.2	42.2	40.3	40.7	44.1	47.5	48.3
177.5°	33.9	34.3	35.1	34.7	35.4	33.6	34.3	33.6	34.7	34.7	34.7
180°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3

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

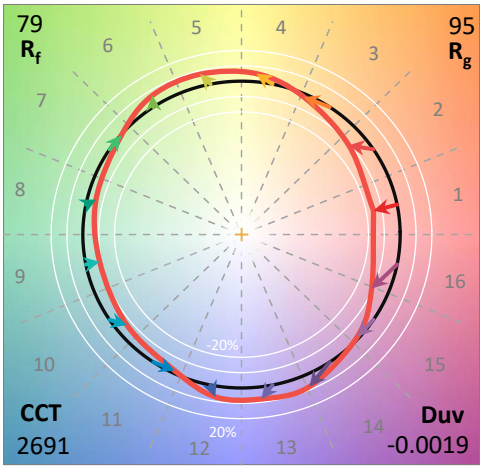
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

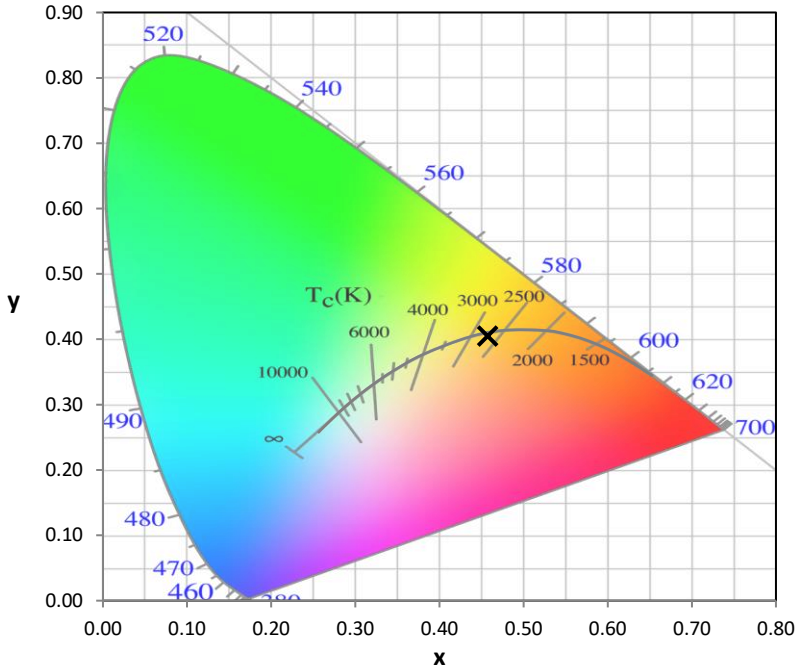
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

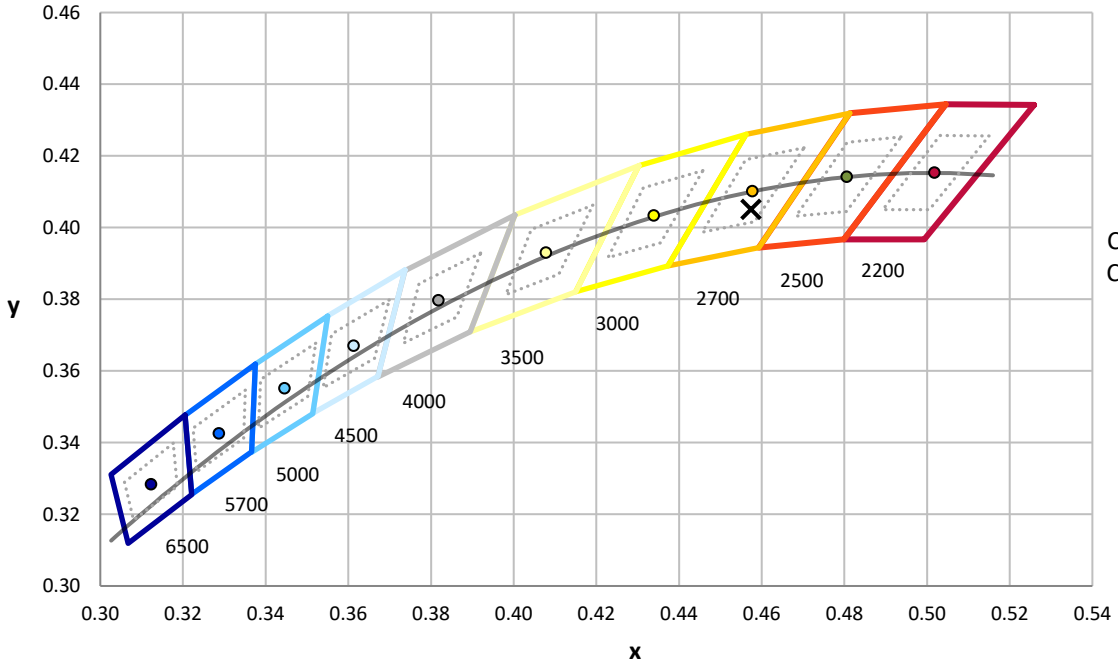
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

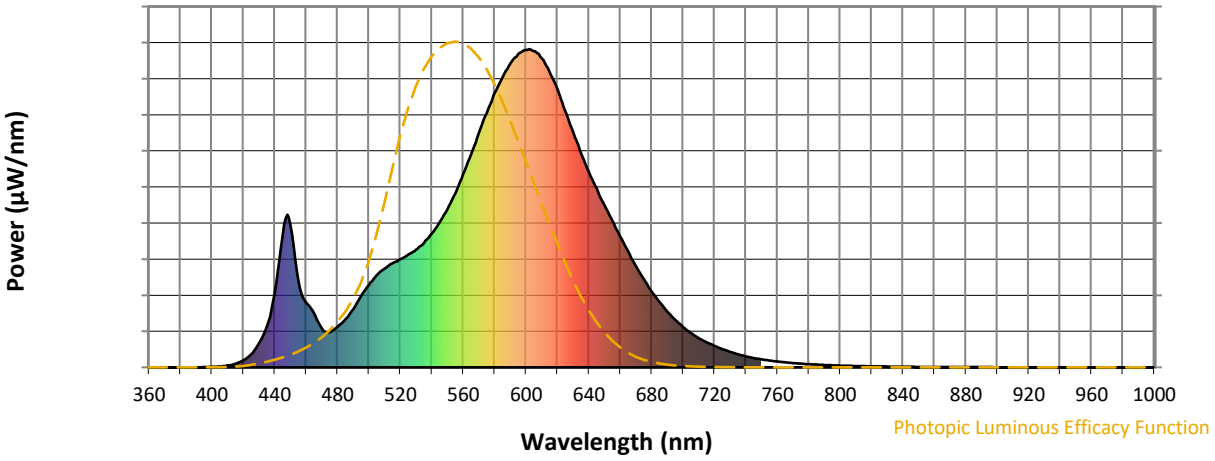


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

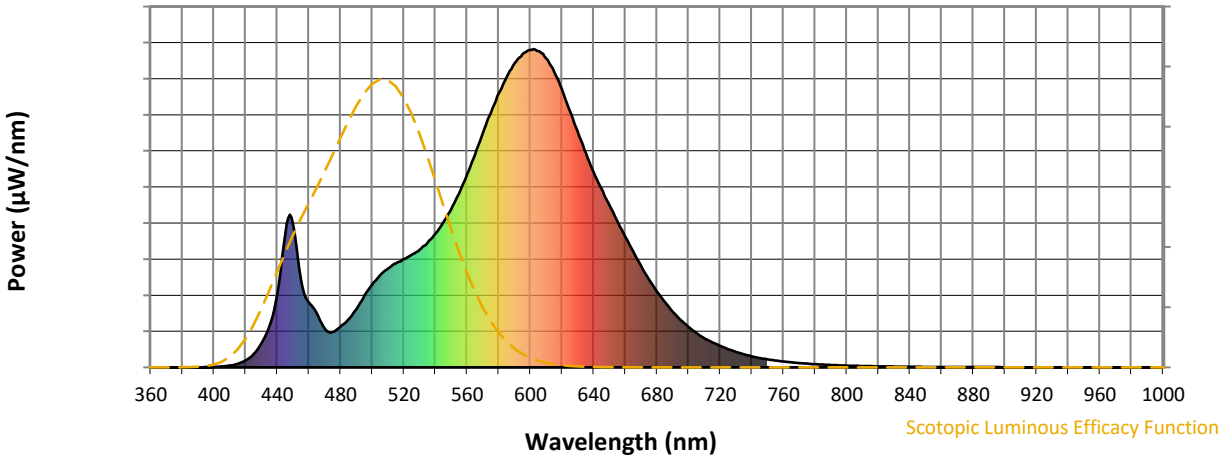


Photopic Lumens: NR

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

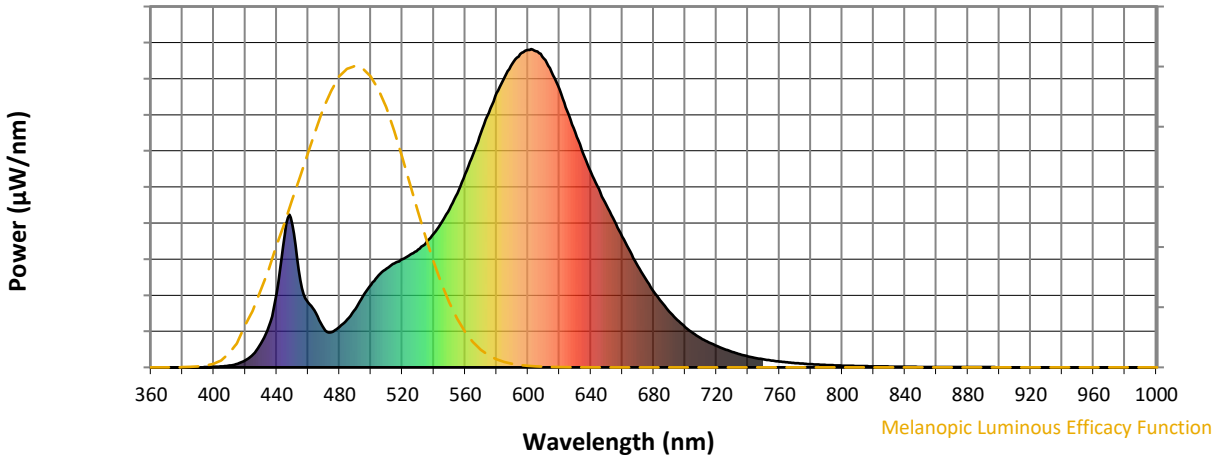


Scotopic Lumens: NR **S/P: 1.18**

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			

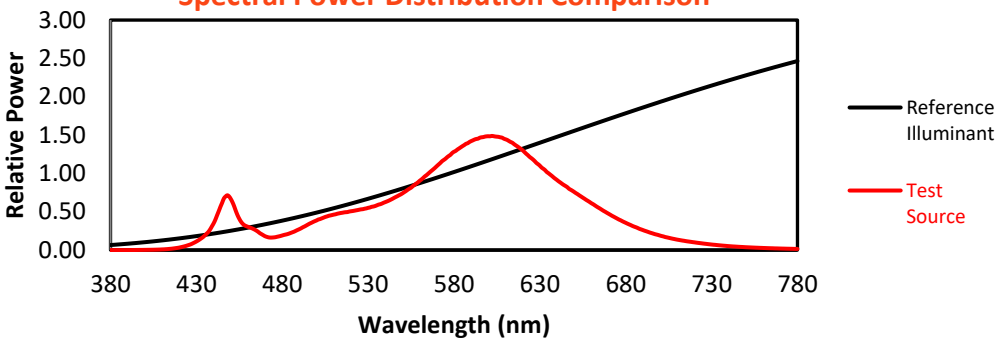
REPORT NUMBER: SP1-2501-332-8

TM-30-18

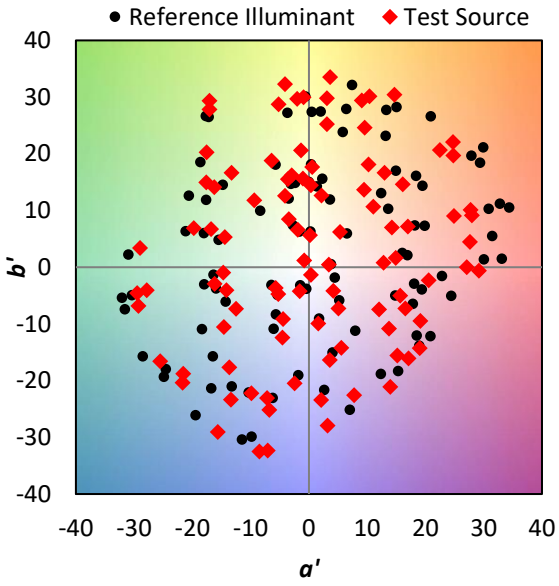
Summary

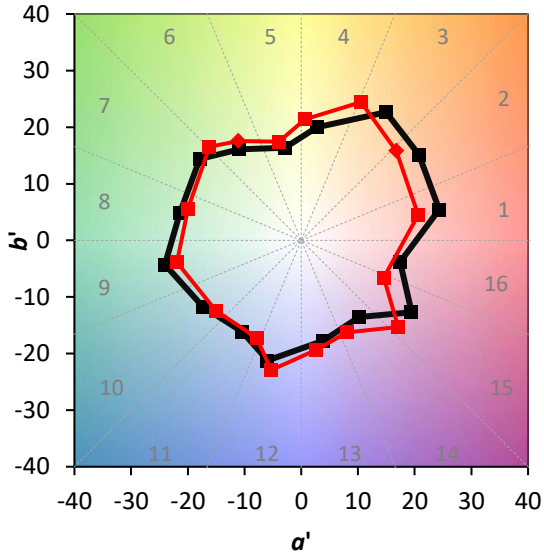
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

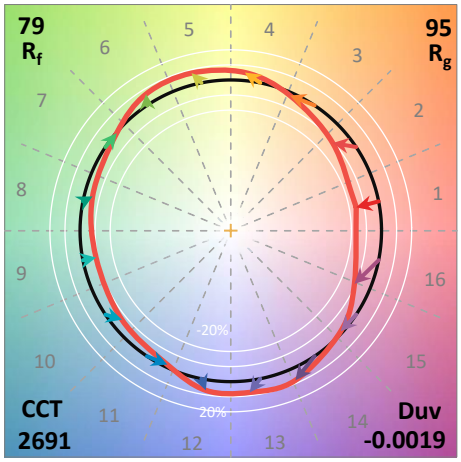
Spectral Power Distribution Comparison

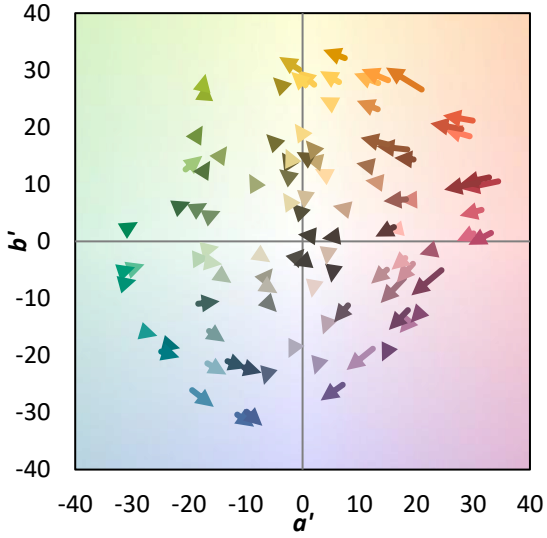


Color Vector Graphics







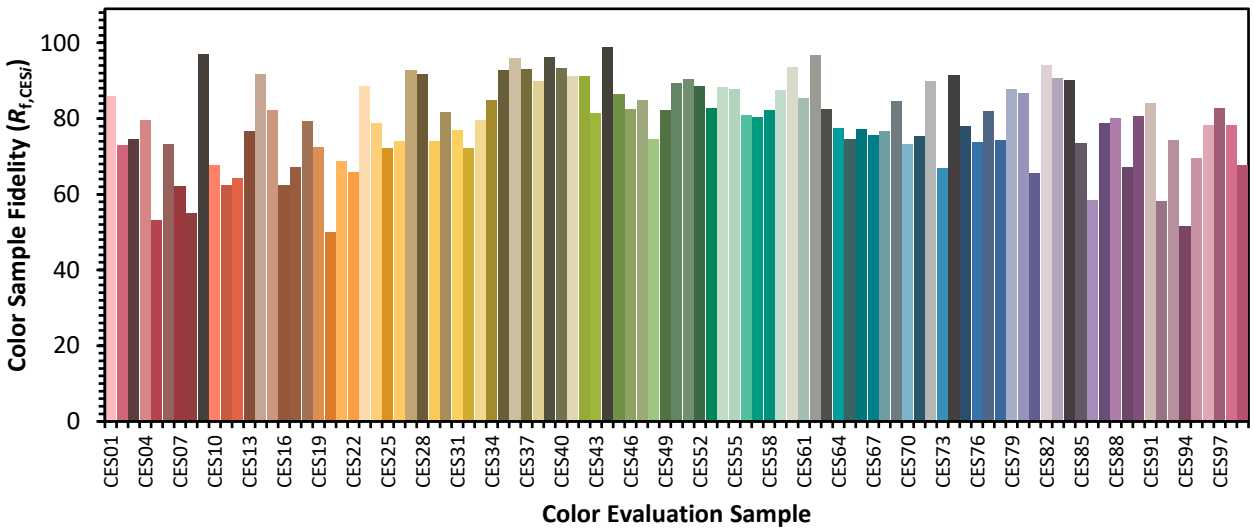


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

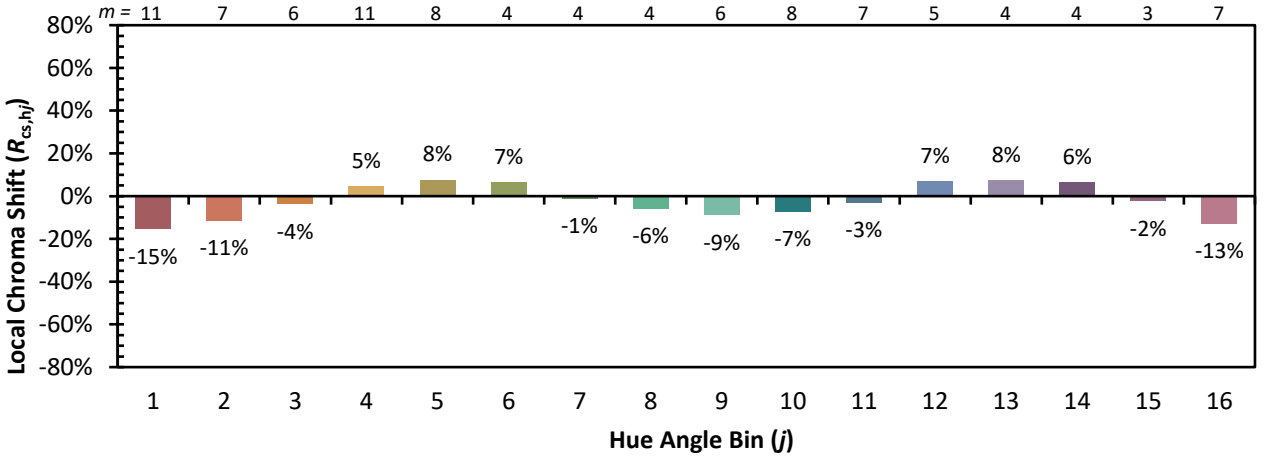
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

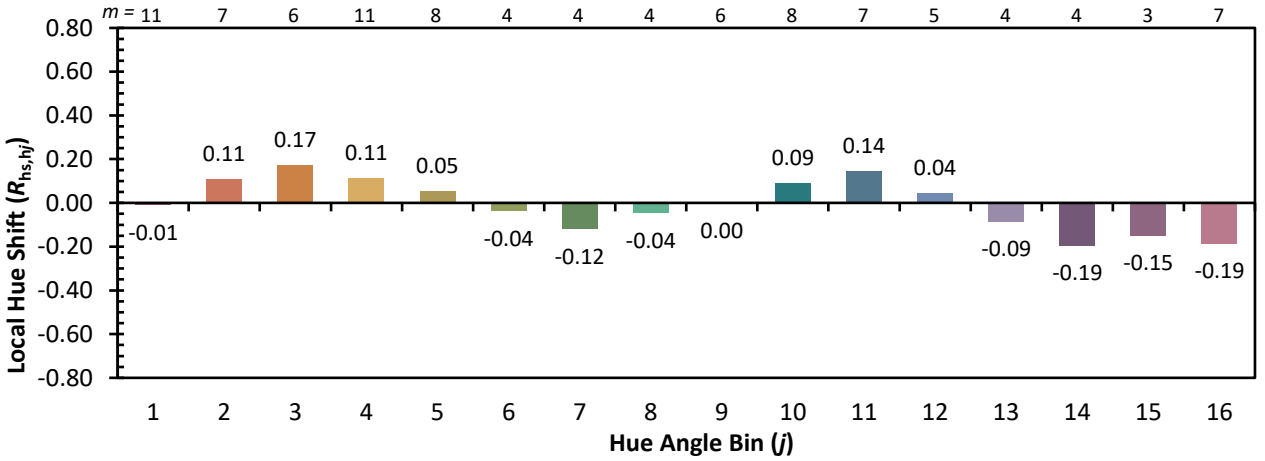


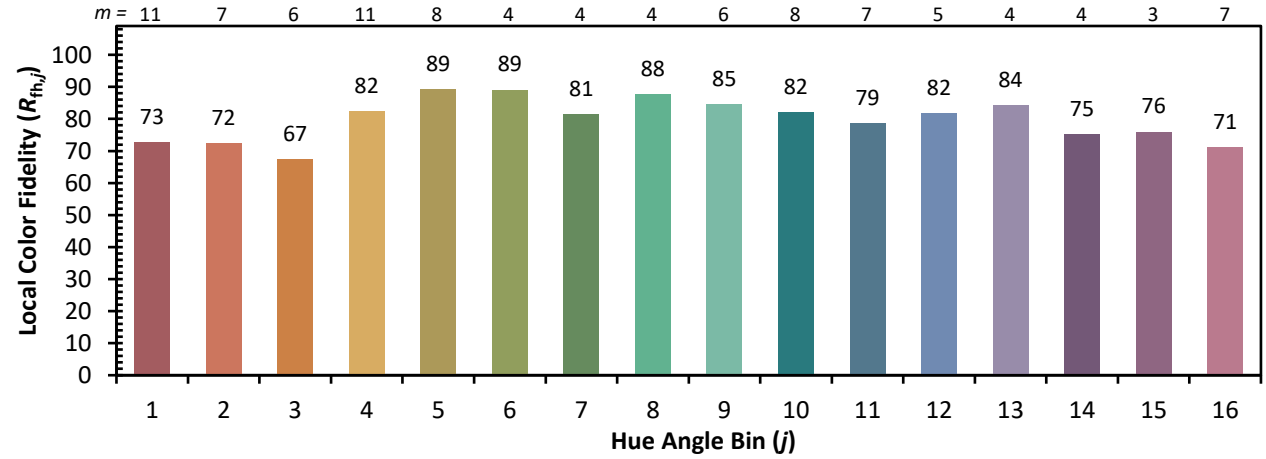
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Color Rendition by Hue-Angle Bin



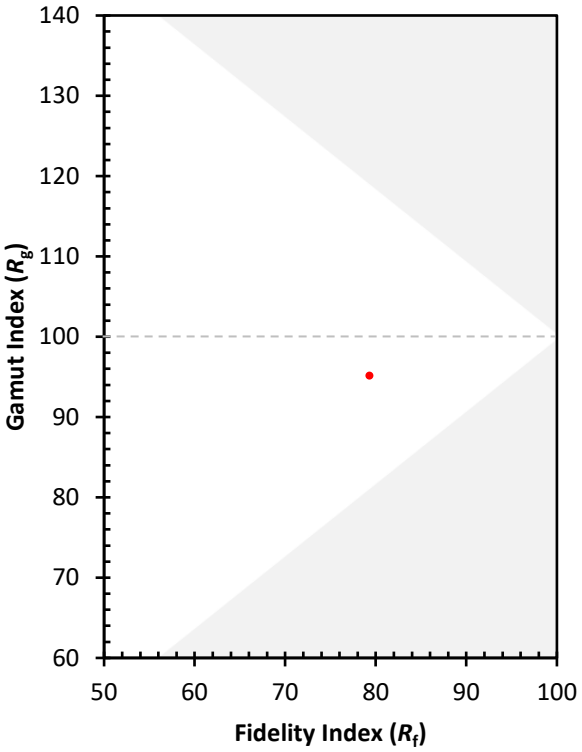


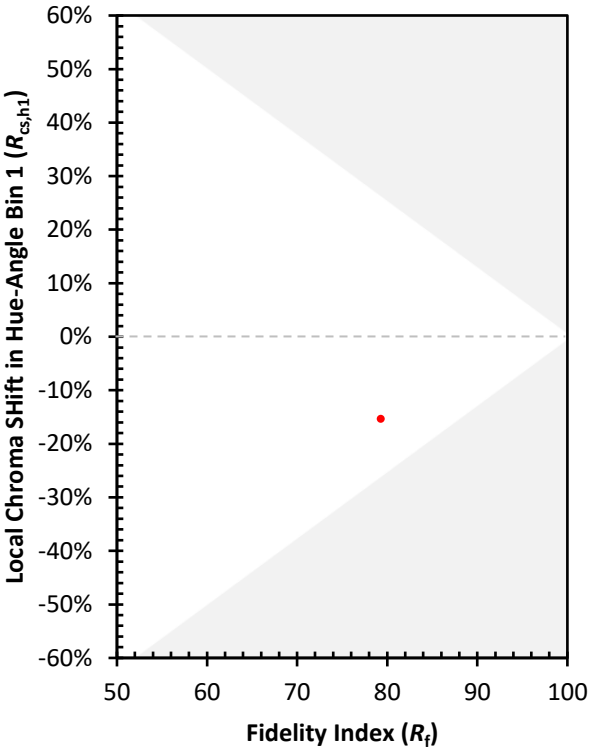


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Measure Comparisons





(END OF REPORT)