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: P1045881

Luminaire Tested: **FFX-CLB-50-727-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045881
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-727-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5130.1 lumens
Efficiency:	N/A
Efficacy:	101.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G3

Input Watts (W):	50.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.12%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

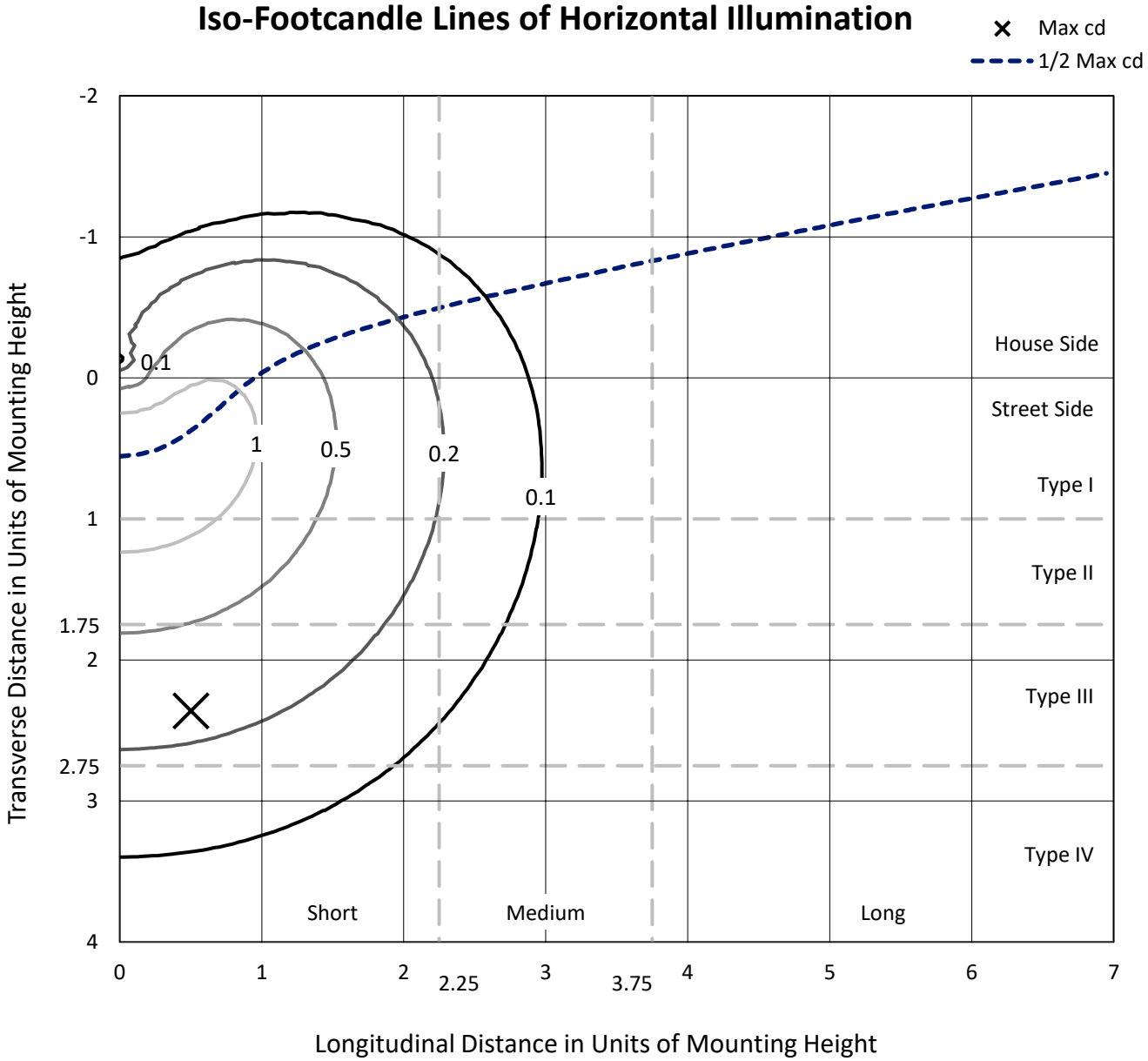


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Iso-Footcandle Lines of Horizontal Illumination



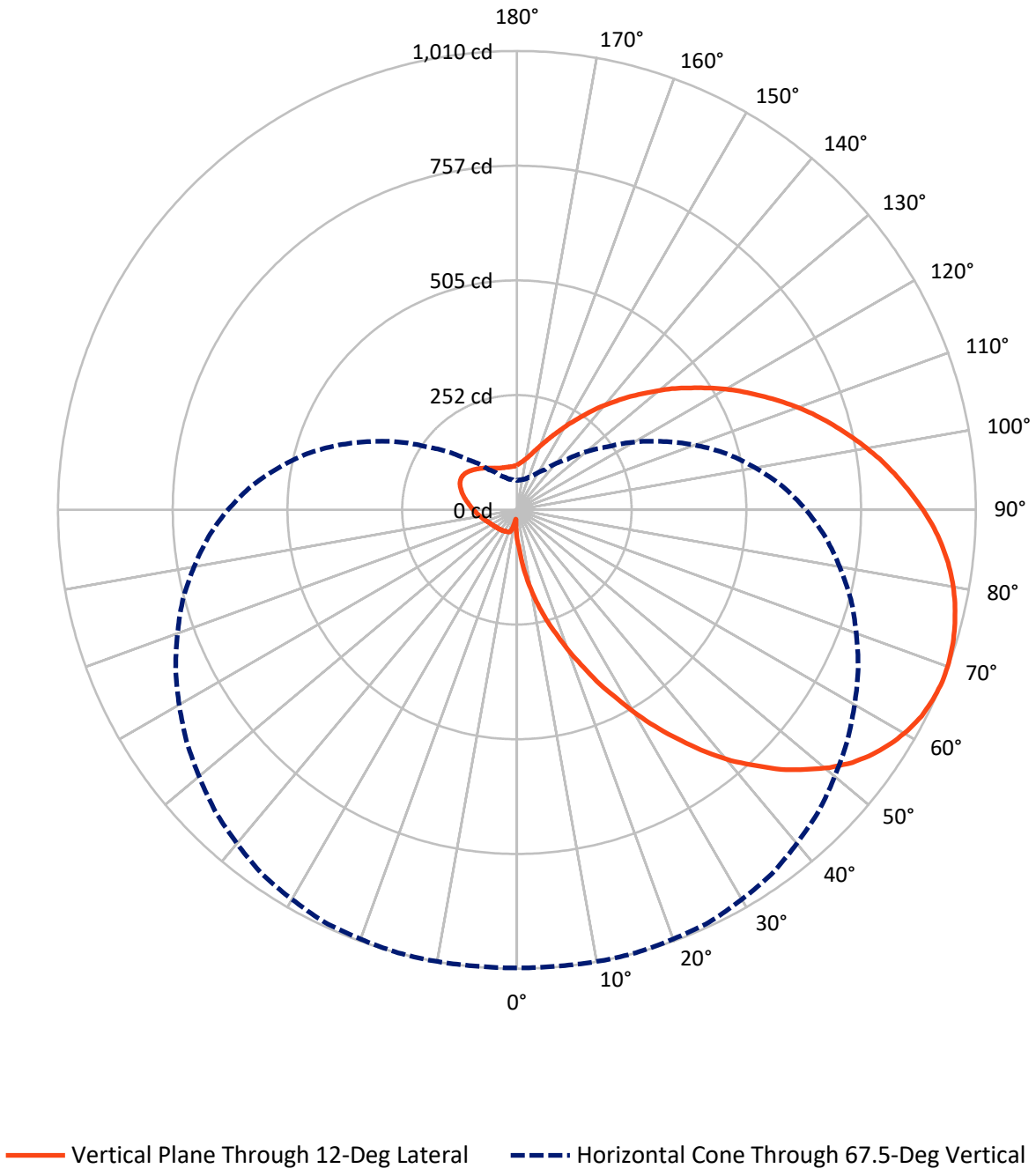
Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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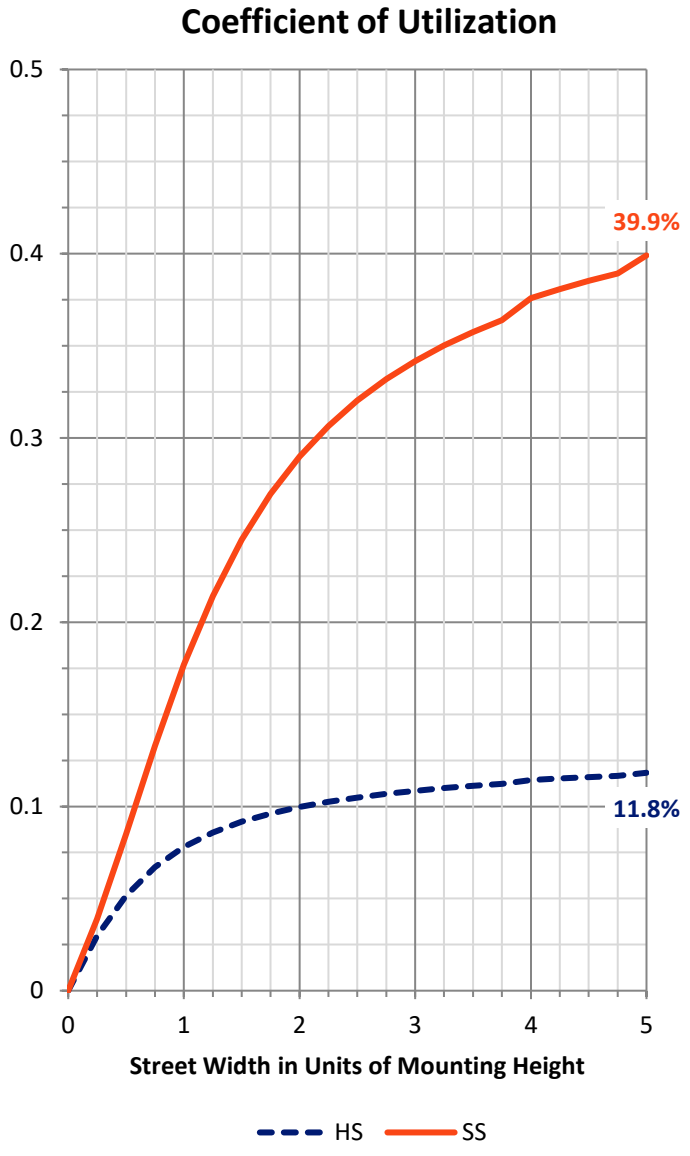
REPORT NUMBER: P1045881
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.2	639.0	1299.2
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2334.2	1496.7	3830.9
	% Fixture	45.5	29.2	74.7
Total	Lumens	2994.4	2135.7	5130.1
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.2
10°-20°	45.7	0.9
20°-30°	119.0	2.3
30°-40°	231.0	4.5
40°-50°	362.8	7.1
50°-60°	481.6	9.4
60°-70°	561.2	10.9
70°-80°	596.3	11.6
80°-90°	588.7	11.5
90°-100°	542.8	10.6
100°-110°	473.7	9.2
110°-120°	389.5	7.6
120°-130°	294.9	5.7
130°-140°	201.4	3.9
140°-150°	123.4	2.4
150°-160°	67.7	1.3
160°-170°	32.7	0.6
170°-180°	9.7	0.2
0°-90°	2994.4	58.4
0°-180°	5130.1	100.0



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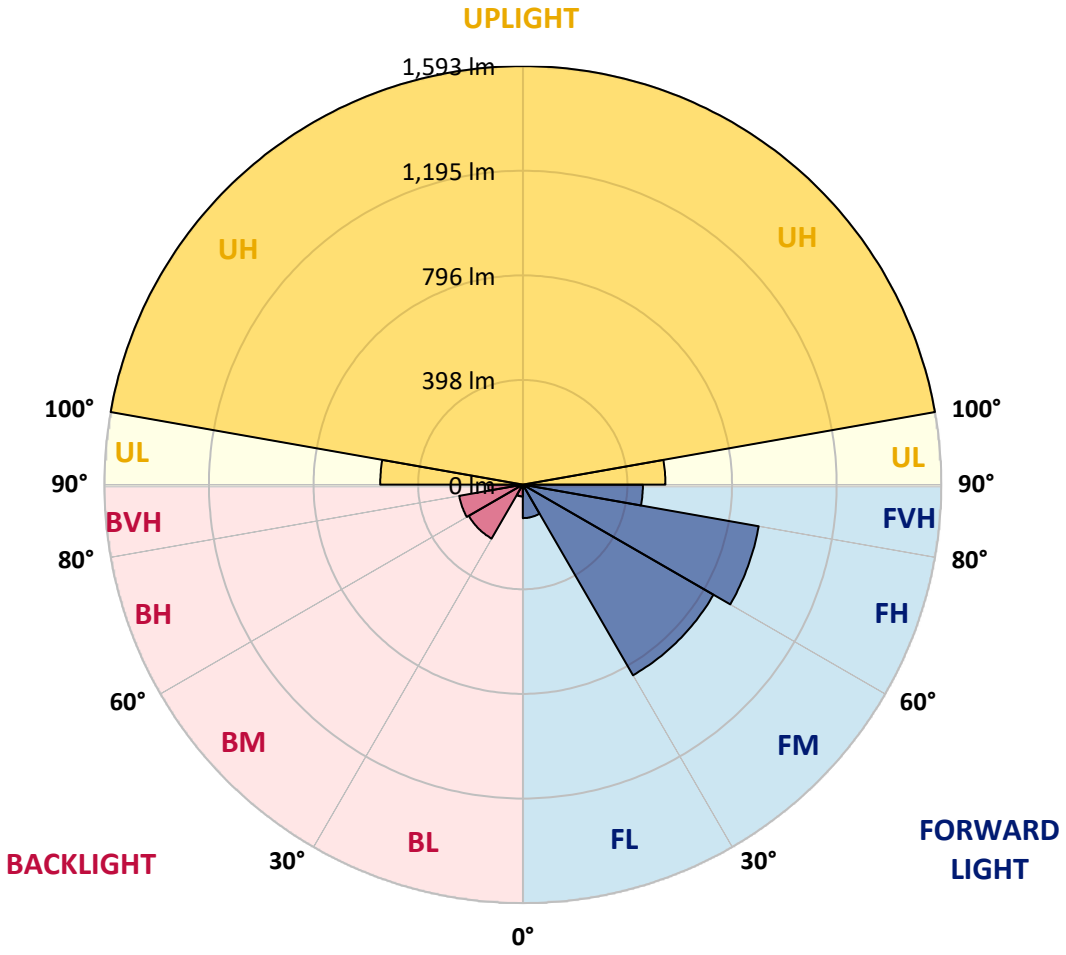
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	127.5	2.5			
FM	(30°-60°)	838.1	16.3			
FH	(60°-80°)	911.6	17.8			G1/1800
FVH	(80°-90°)	456.9	8.9			G3/500
BL	(0°-30°)	45.2	0.9	B0/110		
BM	(30°-60°)	237.3	4.6	B1/1000		
BH	(60°-80°)	245.8	4.8	B1/500		G1/500
BVH	(80°-90°)	131.8	2.6			G2/225
UL	(90°-100°)	542.8	10.6		U4/1000	
UH	(100°-180°)	1592.9	31.1		U5	

BUG Rating: B1-U5-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	64.9	64.9	*64.9*	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	81.3	83.0	*81.3*	83.5	82.4	82.4	79.6	76.8	72.8	68.3	64.3
5°	115.1	114.6	*112.3*	114.6	112.3	109.5	105.0	97.6	90.3	83.5	75.1
7.5°	150.1	150.7	*149.0*	148.4	143.3	139.4	132.1	124.7	115.7	105.5	95.4
10°	187.9	186.8	*184.0*	184.5	178.9	171.0	162.5	154.1	143.9	132.1	119.1
12.5°	222.9	222.9	*220.7*	221.2	215.0	206.0	199.2	187.9	175.5	161.4	145.6
15°	260.2	257.9	*256.8*	256.8	250.6	242.7	235.3	222.9	208.2	192.4	174.4
17.5°	294.6	294.0	*292.9*	293.5	287.8	281.1	269.2	256.8	239.3	220.1	201.5
20°	338.6	336.4	*334.7*	331.8	328.5	319.4	308.1	291.8	274.3	253.4	228.6
22.5°	378.7	381.5	*377.0*	374.7	370.2	362.9	346.5	330.7	309.8	285.6	258.5
25°	425.0	427.2	*425.5*	422.7	416.5	406.3	391.1	373.6	348.8	321.1	289.0
27.5°	473.5	475.2	*470.7*	471.8	461.1	451.5	436.3	414.8	391.1	358.4	324.5
30°	521.5	524.9	*523.2*	519.2	510.2	501.7	483.7	461.1	434.0	397.9	358.9
32.5°	577.9	574.0	*574.5*	570.0	564.4	550.8	535.0	509.6	478.0	439.6	395.1
35°	630.4	628.7	*624.2*	626.4	616.8	604.4	584.7	557.6	523.2	480.8	431.7
37.5°	677.2	678.9	*676.1*	674.4	668.2	654.1	631.0	603.3	563.8	519.2	465.6
40°	725.2	726.3	*725.8*	725.8	717.3	701.5	677.8	646.8	606.1	558.2	500.0
42.5°	770.9	772.0	*769.2*	769.8	763.0	746.7	721.3	688.5	643.4	593.1	529.9
45°	814.9	814.9	*814.9*	814.4	804.8	789.5	763.6	726.3	681.2	624.2	557.6
47.5°	855.6	854.4	*853.9*	853.9	847.7	829.6	802.0	761.3	712.2	652.4	584.7
50°	891.7	892.3	*891.7*	890.6	881.0	866.3	835.3	792.9	741.0	679.5	607.3
52.5°	922.7	923.3	*923.9*	921.0	914.8	897.3	862.9	817.8	765.3	700.9	625.9
55°	947.6	948.7	*949.8*	948.7	942.5	921.6	887.2	841.5	785.0	719.0	642.2
57.5°	970.7	970.1	*970.7*	969.6	962.8	942.5	906.9	857.8	800.8	733.7	654.7
60°	986.5	987.1	*987.1*	987.1	979.2	958.3	920.5	870.2	812.1	745.0	665.4
62.5°	997.2	997.8	*999.5*	998.4	991.0	969.0	930.1	879.3	820.6	752.3	672.7
65°	1004.6	1005.1	*1006.3*	1005.1	998.4	975.8	936.3	884.9	826.2	757.9	677.8
67.5°	*1008.0*	*1008.0*	*1009.6*	*1009.1*	*1001.2*	*978.0*	*938.5*	*887.2*	*828.5*	*760.8*	*681.2*
70°	1006.3	1006.8	*1008.0*	1007.4	999.5	976.3	936.8	886.0	827.9	760.8	681.7
72.5°	1002.3	1002.3	*1003.4*	1002.3	995.0	971.8	932.9	882.7	825.1	759.6	681.2
75°	994.4	995.0	*995.5*	995.0	987.1	964.5	926.1	876.5	820.6	755.7	678.9
77.5°	984.8	985.4	*985.4*	985.4	976.9	954.3	917.1	868.6	814.4	751.2	675.0
80°	970.7	971.3	*972.4*	971.3	962.8	942.5	905.2	859.0	806.5	743.8	669.9
82.5°	954.9	954.3	*956.0*	955.5	947.0	926.7	890.0	846.0	794.6	735.4	662.6
85°	935.1	935.1	*936.3*	935.1	927.8	906.4	871.9	830.2	781.1	722.9	653.5
87.5°	913.1	913.1	*914.3*	912.0	903.5	884.9	852.2	811.6	766.4	710.5	643.4
90°	887.2	888.3	*888.3*	886.6	878.1	860.1	830.2	791.2	747.2	695.3	631.5
92.5°	862.3	862.3	*861.2*	861.2	852.2	834.1	806.5	770.9	729.7	680.1	618.5
95°	835.8	835.8	*834.1*	833.0	824.0	808.7	782.2	749.5	710.0	664.3	605.6
97.5°	807.6	807.0	*805.9*	804.8	795.8	781.1	757.4	725.8	689.7	646.2	591.5
100°	778.8	779.4	*775.4*	774.9	765.8	753.4	730.8	701.5	668.2	627.6	576.2
102.5°	747.2	748.3	*745.0*	744.4	735.4	721.8	703.8	677.2	647.3	610.1	561.0
105°	719.0	716.2	*714.5*	713.4	705.5	693.0	673.8	653.0	624.7	589.8	544.0
107.5°	686.8	687.4	*684.0*	681.7	673.8	663.7	646.8	627.6	602.7	569.4	527.7
110°	654.7	653.5	*651.8*	650.7	641.7	632.7	618.0	602.2	577.9	549.1	510.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	621.4	621.9	*619.1*	617.4	611.2	601.6	590.9	575.6	554.8	527.7	491.0
115°	590.3	589.2	*586.9*	585.8	579.0	571.7	561.0	549.7	531.1	505.1	471.8
117.5°	558.7	556.5	*555.9*	554.2	549.1	541.8	533.3	523.7	505.7	483.1	451.5
120°	526.0	526.0	*524.9*	523.7	517.0	510.7	505.7	495.5	480.3	458.8	431.7
122.5°	495.5	494.9	*492.7*	491.0	487.6	482.0	475.8	467.9	454.3	435.1	409.2
125°	462.2	463.3	*461.6*	461.1	455.4	452.6	447.0	441.9	427.8	410.3	387.2
127.5°	434.6	432.9	*432.9*	430.0	427.2	424.4	419.9	413.1	403.5	385.5	364.0
130°	405.2	404.1	*402.4*	402.4	399.0	395.1	392.2	386.6	375.9	361.2	340.9
132.5°	375.9	374.7	*373.6*	371.9	369.7	369.1	366.3	360.1	349.9	336.9	319.4
135°	348.2	347.6	*347.1*	347.1	343.7	342.0	338.6	333.5	326.8	314.9	298.0
137.5°	322.3	320.6	*319.4*	319.4	318.3	315.5	312.7	308.7	301.4	291.8	276.5
140°	295.2	296.3	*296.3*	295.7	293.5	291.8	288.4	285.0	277.7	269.8	256.8
142.5°	272.6	272.0	*270.9*	270.3	269.2	266.9	265.3	261.3	256.8	248.3	237.0
145°	248.3	248.3	*247.8*	248.3	246.1	245.5	243.2	239.9	234.8	227.4	217.8
147.5°	226.9	226.9	*226.3*	226.9	225.2	223.5	221.8	219.5	215.0	209.4	200.9
150°	207.1	207.7	*206.6*	206.6	206.0	204.3	203.2	199.8	196.4	191.9	184.5
152.5°	189.1	189.6	*189.1*	188.5	187.9	186.8	185.1	182.9	179.5	175.5	169.3
155°	173.8	173.3	*173.3*	173.3	172.7	171.0	171.0	167.6	164.2	161.4	155.2
157.5°	159.2	159.2	*159.2*	159.2	158.0	157.5	156.3	153.5	151.8	147.9	143.3
160°	147.3	146.7	*146.7*	146.7	145.6	145.0	143.3	142.2	140.0	136.6	133.2
162.5°	135.4	136.0	*136.0*	136.0	134.9	134.3	133.2	132.1	130.4	127.0	124.7
165°	126.4	126.4	*126.4*	125.9	125.3	125.3	123.6	123.0	121.3	119.1	117.4
167.5°	119.1	119.1	*118.5*	119.1	118.0	116.8	116.3	115.1	114.0	112.9	111.2
170°	112.9	112.9	*112.9*	112.9	112.3	111.7	110.6	110.1	108.9	107.8	106.1
172.5°	107.8	107.8	*107.8*	107.8	107.2	106.7	105.5	105.0	104.4	103.3	102.1
175°	103.8	103.8	*103.8*	103.8	103.3	102.7	101.6	101.6	101.0	100.5	99.3
177.5°	101.0	101.0	*100.5*	100.5	99.9	99.3	99.3	98.8	98.8	98.2	97.6
180°	97.6	97.6	*97.6*	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
2.5°	62.1	59.8	55.9	52.5	48.5	45.7	42.9	42.3	42.3	43.5	43.5
5°	71.7	66.6	58.7	51.4	42.9	36.7	31.0	26.0	22.6	20.9	20.9
7.5°	89.7	85.8	73.9	63.8	53.6	44.0	35.0	27.1	21.4	17.5	16.9
10°	112.9	106.7	92.6	79.6	66.0	54.2	43.5	33.9	27.1	23.7	23.7
12.5°	137.7	129.2	112.3	96.5	80.7	65.5	53.1	43.5	36.7	33.3	32.2
15°	164.2	154.6	134.3	114.0	94.8	78.4	64.3	52.5	45.7	42.3	41.8
17.5°	189.1	178.3	155.2	130.9	108.9	89.2	72.2	59.8	51.4	47.4	46.8
20°	216.2	202.0	175.0	146.7	120.8	97.1	77.9	63.2	53.1	48.5	48.0
22.5°	243.8	227.4	195.3	162.5	131.5	104.4	81.8	64.9	53.6	48.5	48.0
25°	273.2	255.1	217.3	179.5	143.3	111.7	85.8	66.6	54.7	48.5	48.0
27.5°	304.2	283.9	240.4	197.5	155.2	119.1	89.7	68.9	55.3	49.1	48.0
30°	337.5	314.3	264.1	215.0	166.5	125.9	93.1	70.0	55.9	49.1	48.5
32.5°	370.8	342.6	290.1	232.0	178.3	132.1	96.5	71.7	56.4	49.7	49.1
35°	403.0	375.3	313.8	249.4	189.6	138.3	99.3	72.8	57.6	50.2	49.1
37.5°	435.7	405.8	336.4	265.8	199.8	143.3	101.6	73.9	58.1	50.8	49.7
40°	466.7	431.7	358.4	281.6	208.2	147.9	103.3	74.5	58.7	51.4	50.2
42.5°	496.1	458.8	379.3	295.2	216.7	151.2	105.0	75.6	59.3	51.9	51.4
45°	520.9	482.5	397.3	308.7	222.9	154.1	106.1	76.2	59.8	52.5	51.9
47.5°	545.2	504.0	414.2	319.4	229.1	156.9	106.7	76.8	60.4	53.6	53.1
50°	566.6	523.2	429.5	329.0	233.6	158.0	107.2	77.3	61.5	54.7	54.2
52.5°	584.7	539.5	441.3	336.9	237.0	159.2	107.2	77.3	62.1	55.9	55.3
55°	599.4	553.6	452.1	342.6	239.3	159.7	107.2	77.9	63.2	57.0	56.4
57.5°	611.8	564.4	460.5	347.6	241.5	159.7	107.2	78.4	64.3	58.1	57.6
60°	620.8	573.4	466.7	351.0	242.1	159.2	107.2	79.0	65.5	59.8	59.3
62.5°	628.1	579.6	471.8	353.3	242.1	158.0	107.2	79.6	66.6	61.5	61.0
65°	633.2	584.1	475.2	354.4	241.5	157.5	107.2	80.7	68.3	63.2	62.6
67.5°	*636.0*	*587.5*	*477.5*	*355.5*	*241.0*	*157.5*	*107.8*	*82.4*	*70.0*	*65.5*	*64.9*
70°	637.2	588.1	478.0	355.0	240.4	156.3	108.4	83.5	72.2	67.7	67.2
72.5°	637.2	588.6	478.0	355.0	239.3	156.9	108.9	85.2	74.5	70.0	69.4
75°	635.5	586.9	477.5	353.9	238.7	156.3	110.6	87.5	76.8	72.8	72.2
77.5°	632.1	584.7	475.8	352.2	238.2	156.9	111.7	89.7	79.6	75.6	75.6
80°	628.1	581.3	473.5	350.5	237.6	158.0	113.4	92.6	82.4	79.0	78.4
82.5°	621.9	576.2	469.5	348.2	236.5	158.6	115.7	95.4	85.8	81.8	81.8
85°	613.5	568.9	464.5	345.4	235.3	159.7	118.0	97.6	89.2	85.2	85.2
87.5°	604.4	561.0	458.3	342.0	234.8	160.8	120.8	101.0	92.0	88.6	88.0
90°	593.7	551.4	452.1	338.1	234.2	162.5	123.0	104.4	95.9	92.6	92.0
92.5°	582.4	541.8	445.3	335.2	233.6	164.2	126.4	108.4	99.9	96.5	95.9
95°	571.1	531.6	438.5	331.3	233.6	166.5	129.8	112.3	103.8	100.5	99.9
97.5°	558.2	520.3	430.6	327.9	233.6	169.3	133.8	116.3	107.8	104.4	104.4
100°	544.6	509.1	422.7	324.5	234.2	172.1	137.7	120.8	112.3	108.9	108.9
102.5°	531.1	496.6	415.4	321.7	235.3	176.1	142.8	125.9	117.4	114.0	113.4
105°	516.4	484.2	406.9	317.7	236.5	179.5	147.3	130.4	121.9	118.5	118.5
107.5°	501.7	471.2	398.4	314.9	237.6	182.9	152.4	135.4	127.0	123.0	123.0
110°	485.4	457.1	389.4	311.5	238.7	186.8	156.3	140.0	130.9	127.5	127.0

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

Scaled Data Report

REPORT NUMBER: P1045881
CATALOG NUMBER: FFX-CLB-50-727-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	468.4	443.0	379.8	307.0	239.3	190.2	160.8	144.5	135.4	131.5	130.9
115°	450.4	427.2	369.1	302.5	239.3	193.0	164.2	147.9	138.8	134.9	134.3
117.5°	432.3	410.3	357.2	296.3	238.7	194.7	167.1	150.1	141.1	137.1	136.6
120°	413.1	393.4	345.4	290.1	236.5	195.3	168.2	151.8	142.2	138.3	137.7
122.5°	393.4	375.3	331.3	281.6	233.1	194.7	168.2	151.8	142.2	137.7	137.1
125°	371.9	356.1	316.6	271.5	228.0	192.4	167.1	150.7	141.1	136.6	135.4
127.5°	351.0	336.9	301.4	261.3	221.8	189.1	164.8	148.4	138.8	134.3	133.8
130°	330.7	316.6	285.6	250.0	214.5	184.5	160.8	145.0	136.0	130.9	130.4
132.5°	309.3	296.3	269.8	238.2	206.0	178.9	156.9	141.7	132.1	128.1	127.0
135°	287.8	277.7	253.4	225.7	197.5	172.7	152.4	137.7	128.7	124.2	124.2
137.5°	268.6	258.5	237.0	213.3	188.5	165.4	146.7	133.2	124.7	120.8	120.2
140°	248.9	241.0	221.8	200.9	178.9	158.6	142.2	129.2	121.3	117.4	116.8
142.5°	230.3	222.4	207.1	187.9	169.3	151.2	136.6	124.7	117.4	114.0	113.4
145°	211.6	206.0	191.3	176.1	159.7	143.9	130.4	120.2	114.0	110.6	110.6
147.5°	195.3	190.2	177.2	164.2	150.1	137.1	125.3	116.3	110.6	107.8	107.2
150°	179.5	175.0	164.2	153.5	140.5	129.8	119.6	112.3	107.2	105.0	104.4
152.5°	164.8	161.4	152.4	143.3	132.6	123.0	115.1	108.9	104.4	102.1	102.1
155°	152.4	149.6	141.7	133.8	125.3	117.4	110.6	105.5	102.1	100.5	99.9
157.5°	141.7	138.3	132.1	125.9	119.1	112.3	107.2	102.7	100.5	98.8	98.8
160°	131.5	128.7	123.6	119.1	113.4	108.4	103.8	101.0	98.8	97.6	97.6
162.5°	123.0	120.8	116.8	112.9	108.9	105.0	101.6	99.3	97.6	96.5	96.5
165°	115.7	114.6	111.2	108.4	105.0	102.1	99.9	98.2	97.1	96.5	96.5
167.5°	110.1	108.9	106.7	104.4	102.1	99.9	98.2	97.1	96.5	95.9	95.9
170°	105.5	104.4	103.3	101.6	99.9	98.2	97.1	96.5	95.9	95.9	95.9
172.5°	102.1	101.0	100.5	99.3	98.2	97.1	96.5	95.9	95.9	95.9	95.9
175°	99.3	98.8	98.2	97.6	97.1	96.5	95.9	95.9	95.9	95.9	95.9
177.5°	97.6	97.1	97.1	96.5	96.5	95.9	95.9	96.5	96.5	96.5	97.1
180°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6

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

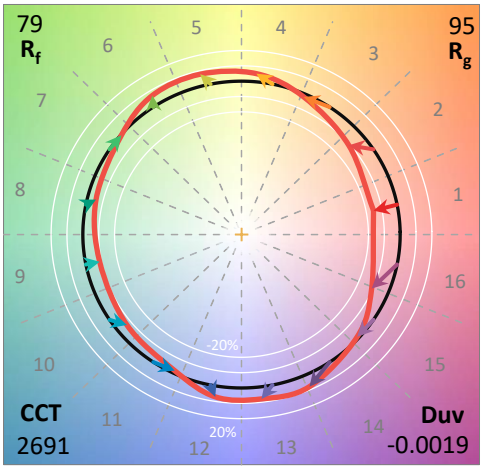
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

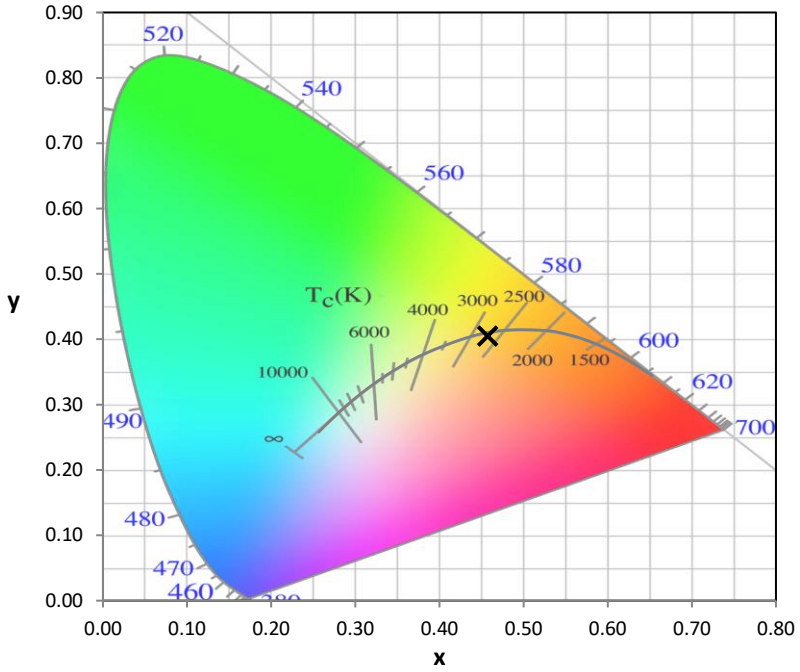
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

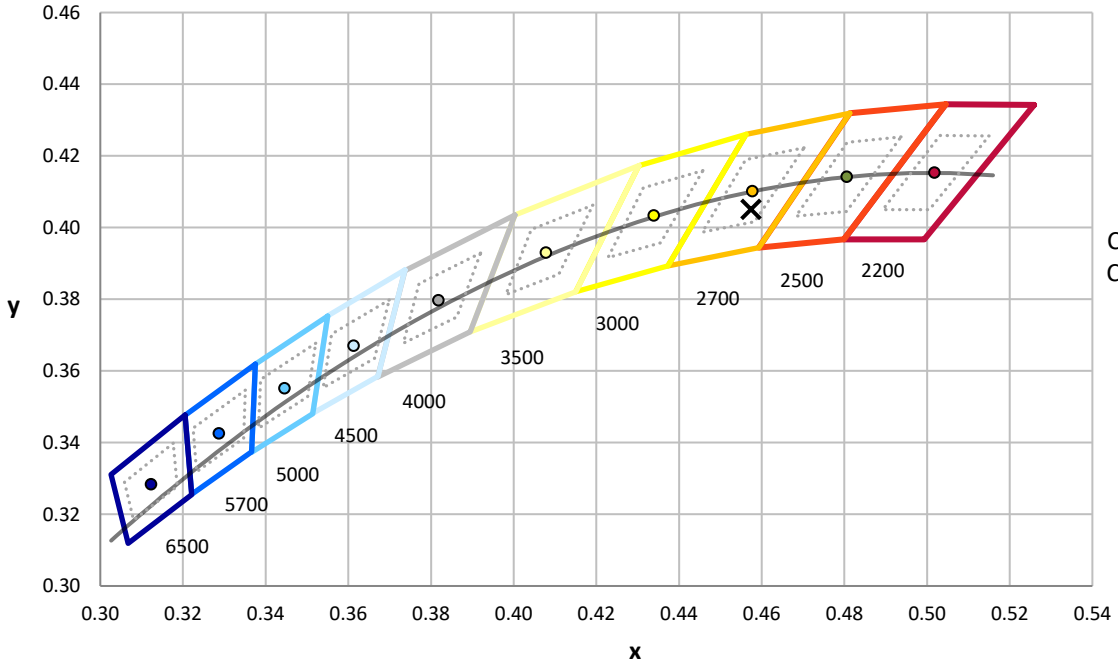
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

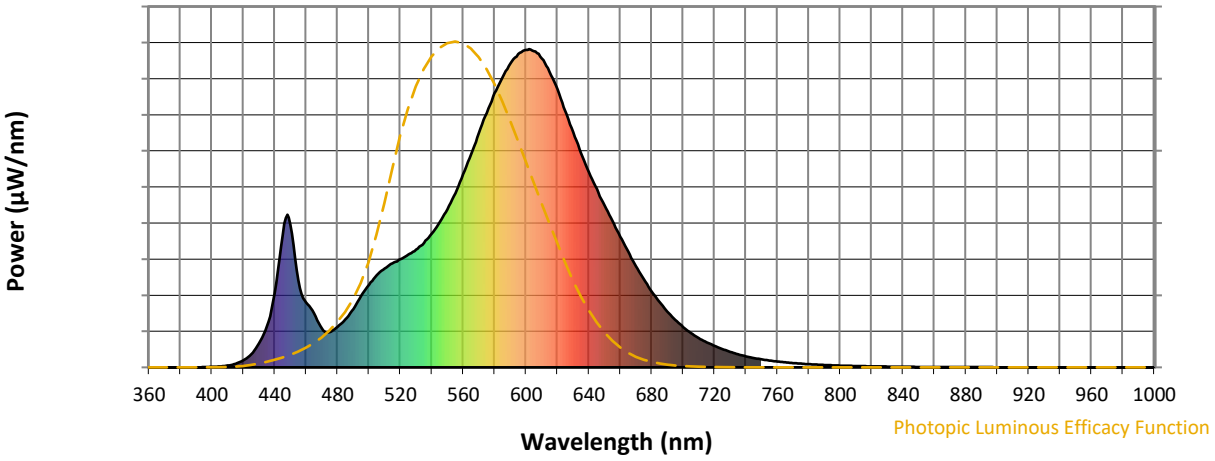


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

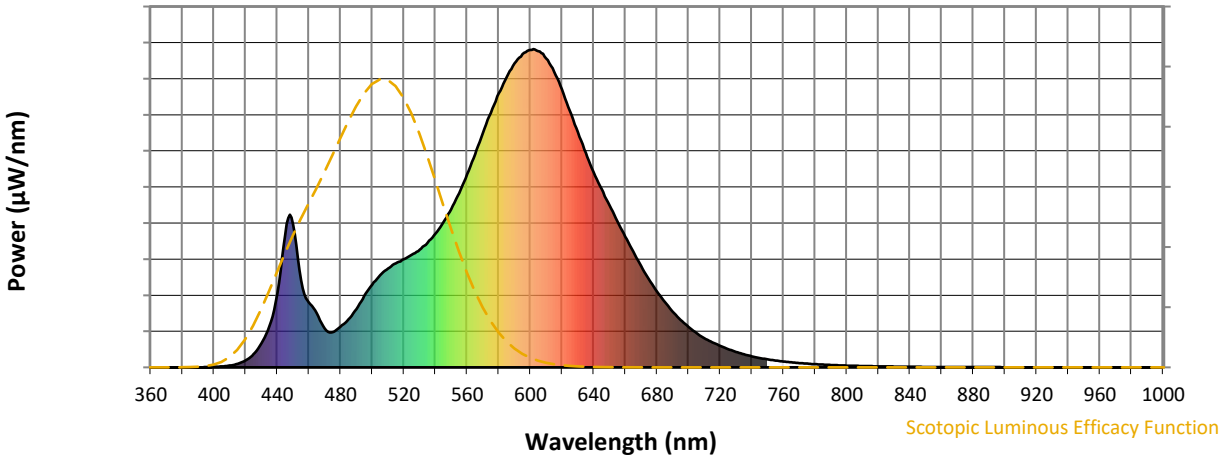


Photopic Lumens: NR

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

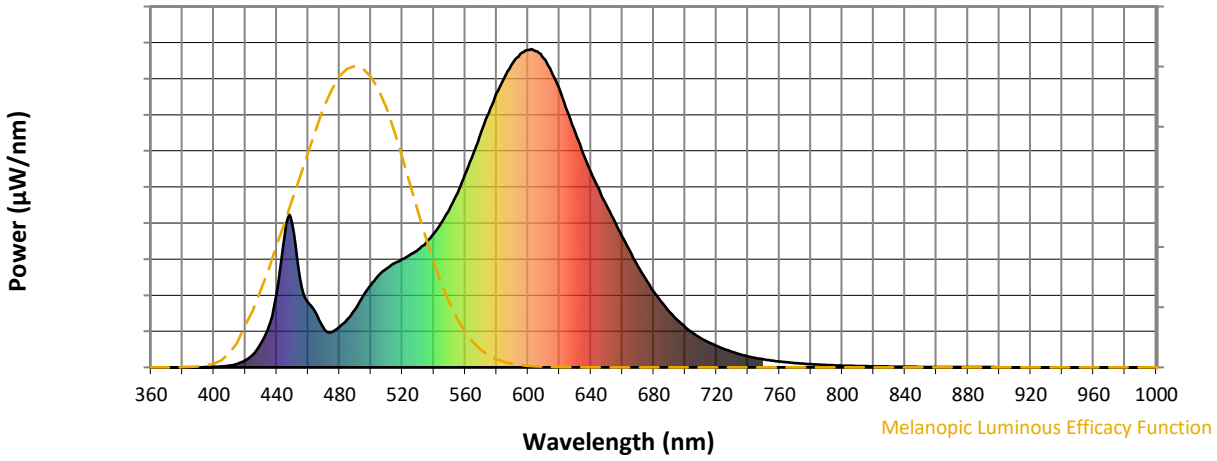


Scotopic Lumens: NR **S/P: 1.18**

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			

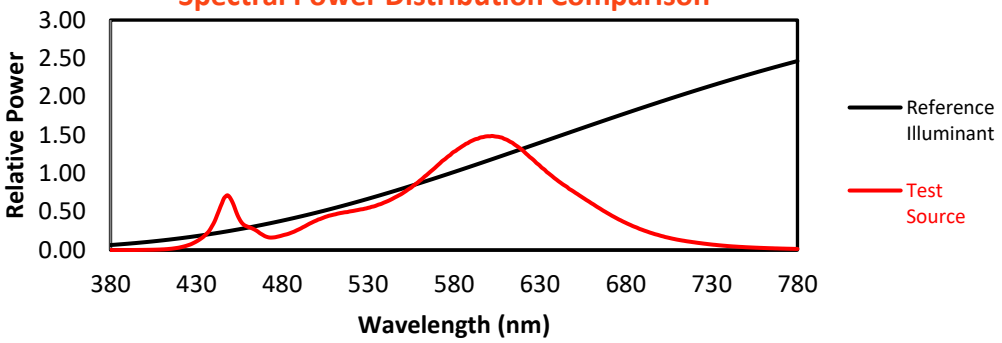
REPORT NUMBER: SP1-2501-332-8

TM-30-18

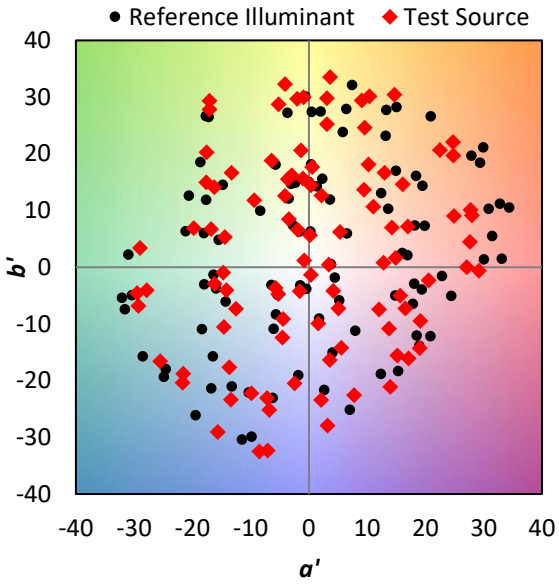
Summary

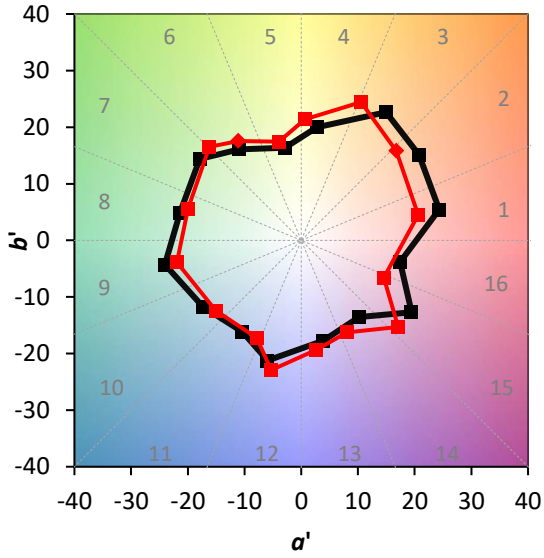
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

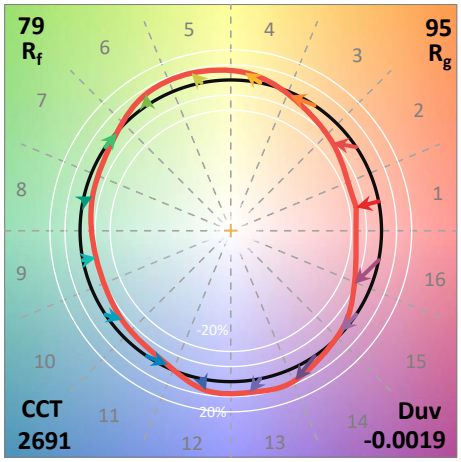
Spectral Power Distribution Comparison

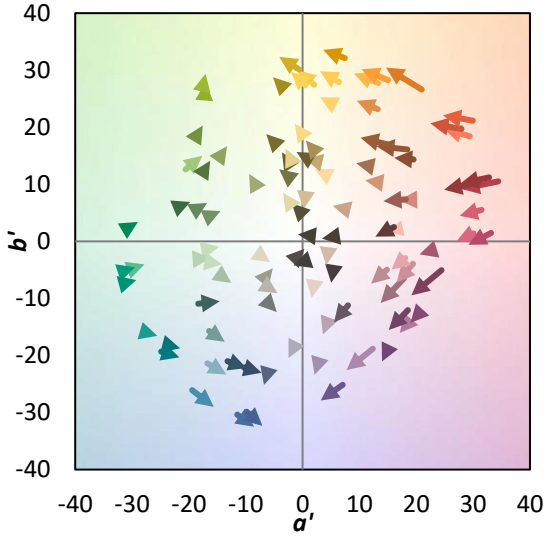


Color Vector Graphics







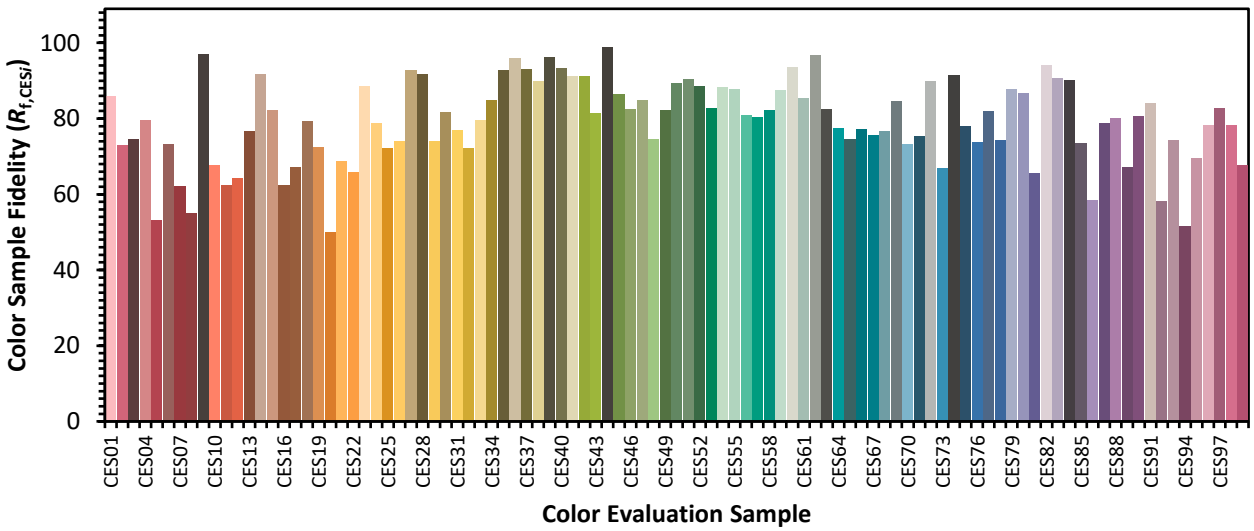


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

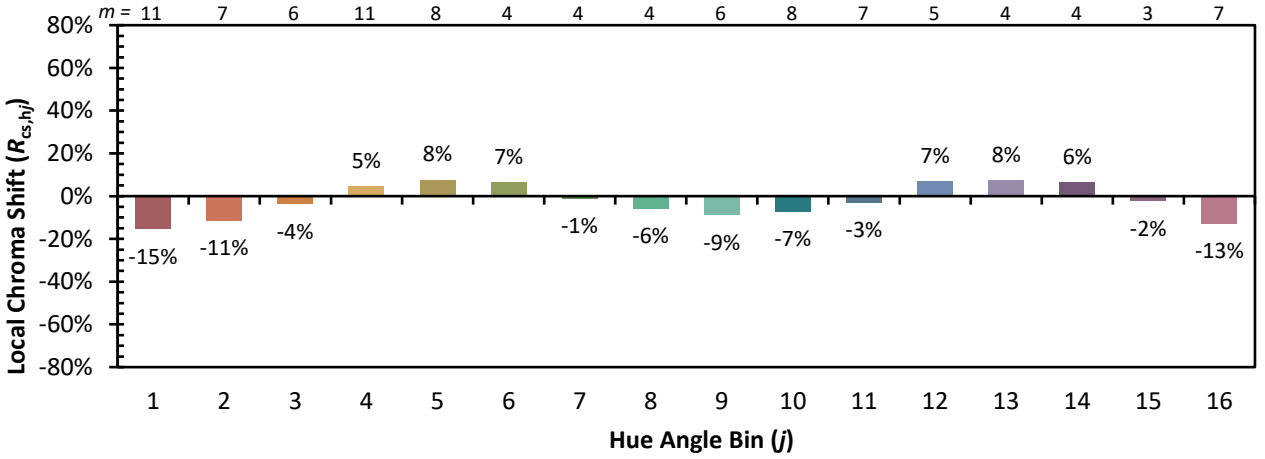
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

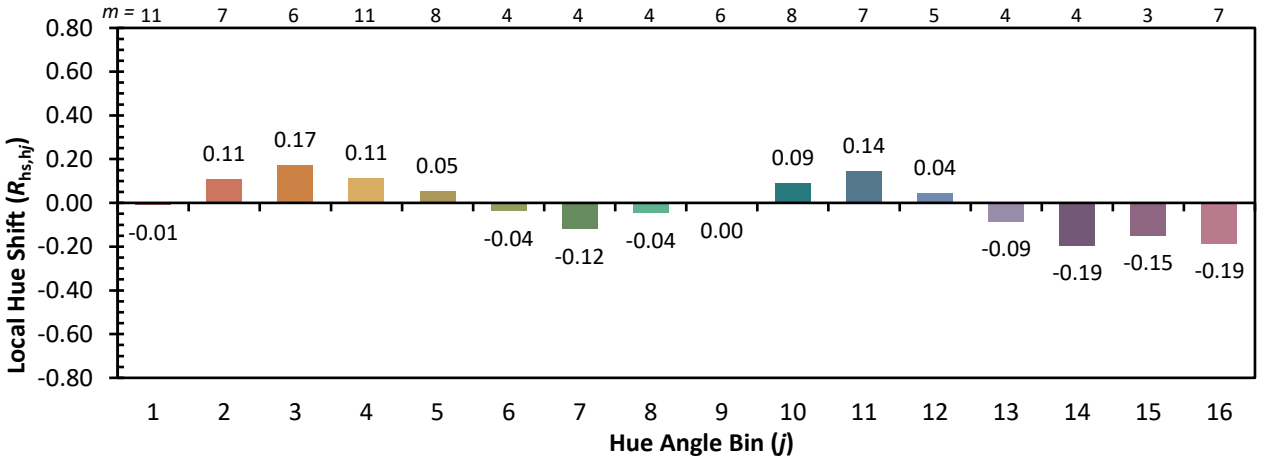


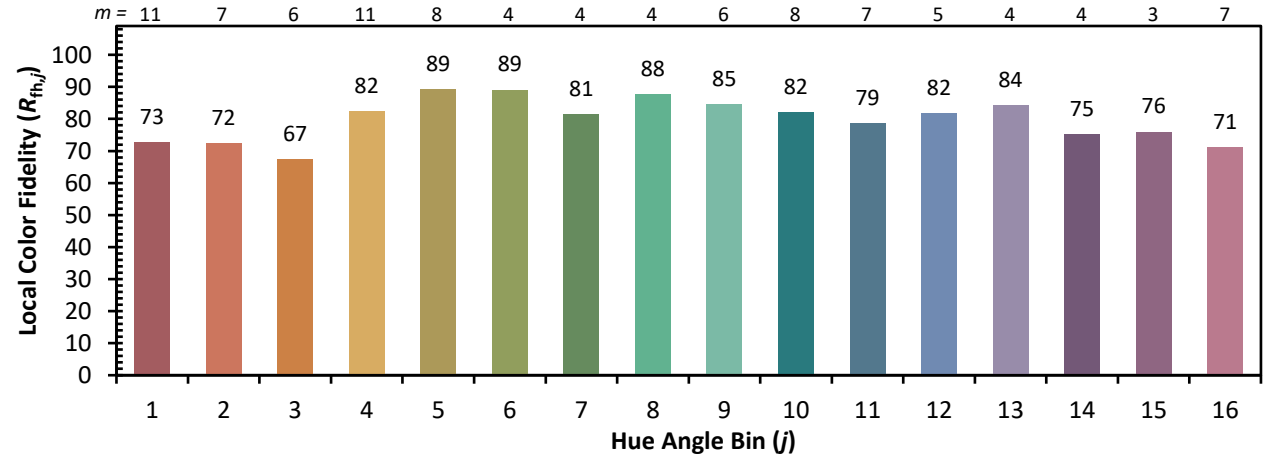
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Color Rendition by Hue-Angle Bin



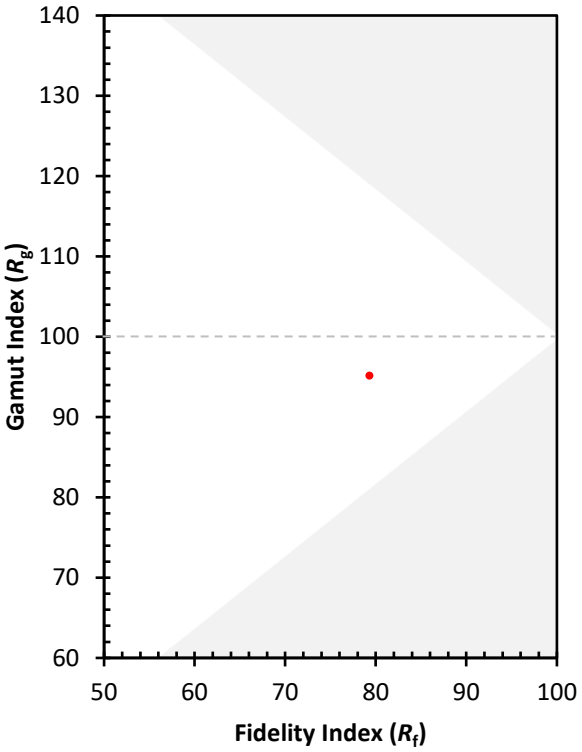


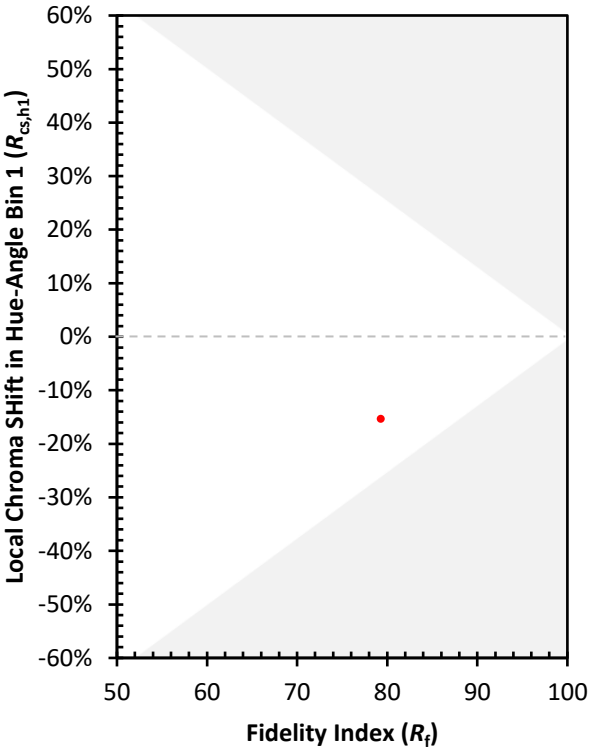


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Measure Comparisons





(END OF REPORT)