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: P1046378

Luminaire Tested: **FFX-CLB-30-727-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:	P1046378
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-30-727-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:	4601.3 lumens
Efficiency:	N/A
Efficacy:	150.4 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G2

Input Watts (W):	30.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	10.8%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

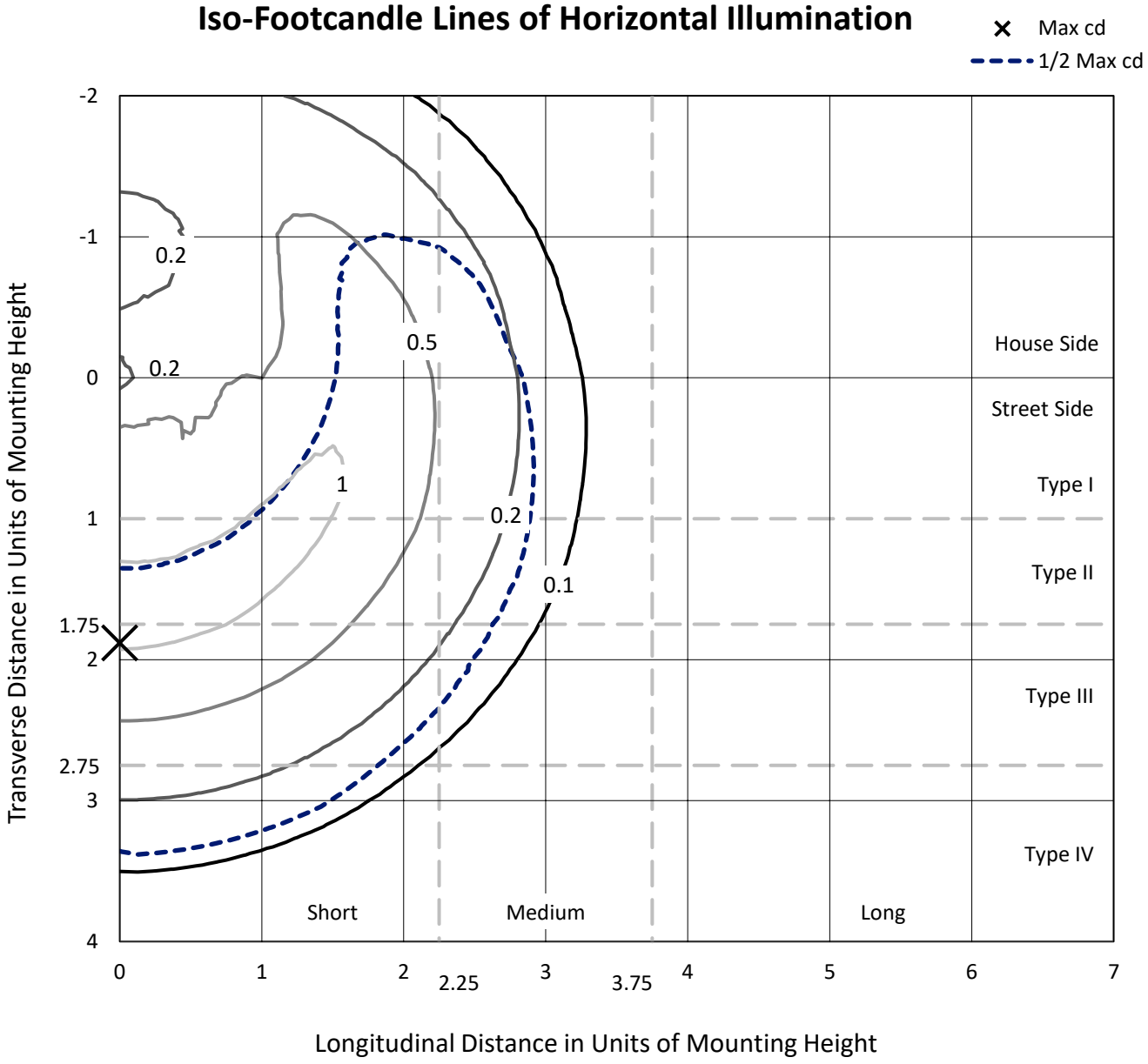


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Iso-Footcandle Lines of Horizontal Illumination



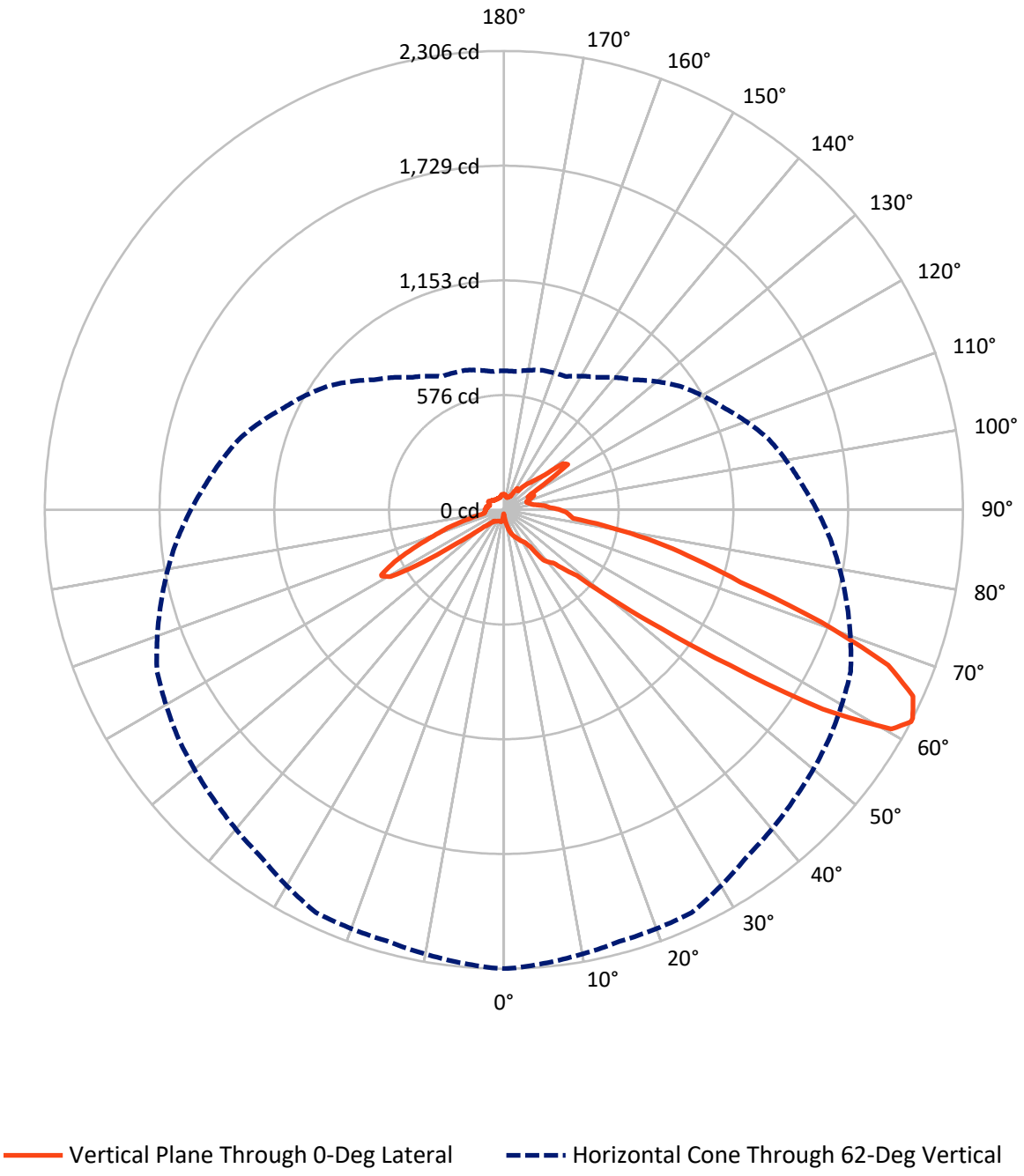
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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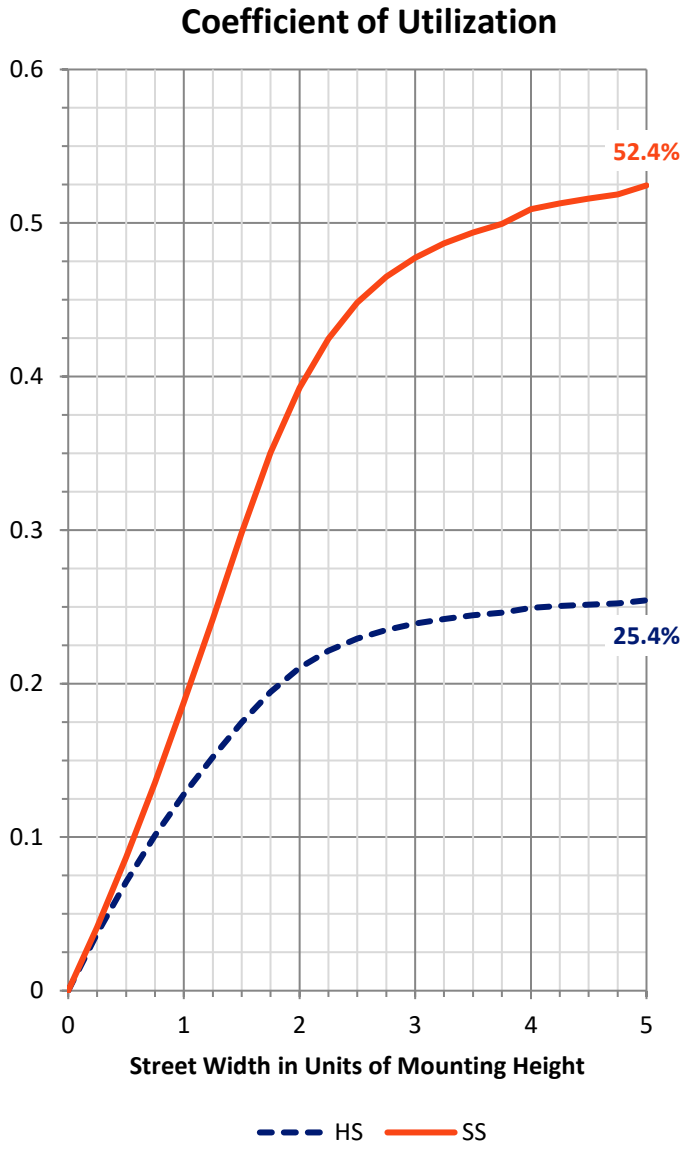
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.7	345.9	1556.6
	% Fixture	26.3	7.5	33.8
Street Side	Lumens	2513.4	531.3	3044.7
	% Fixture	54.6	11.5	66.2
Total	Lumens	3724.1	877.2	4601.3
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	25.5	0.6
20°-30°	55.3	1.2
30°-40°	110.6	2.4
40°-50°	242.3	5.3
50°-60°	848.5	18.4
60°-70°	1420.1	30.9
70°-80°	737.1	16.0
80°-90°	279.9	6.1
90°-100°	178.5	3.9
100°-110°	118.3	2.6
110°-120°	123.6	2.7
120°-130°	206.5	4.5
130°-140°	124.3	2.7
140°-150°	65.7	1.4
150°-160°	34.6	0.8
160°-170°	18.7	0.4
170°-180°	7.0	0.2
0°-90°	3724.1	80.9
0°-180°	4601.3	100.0



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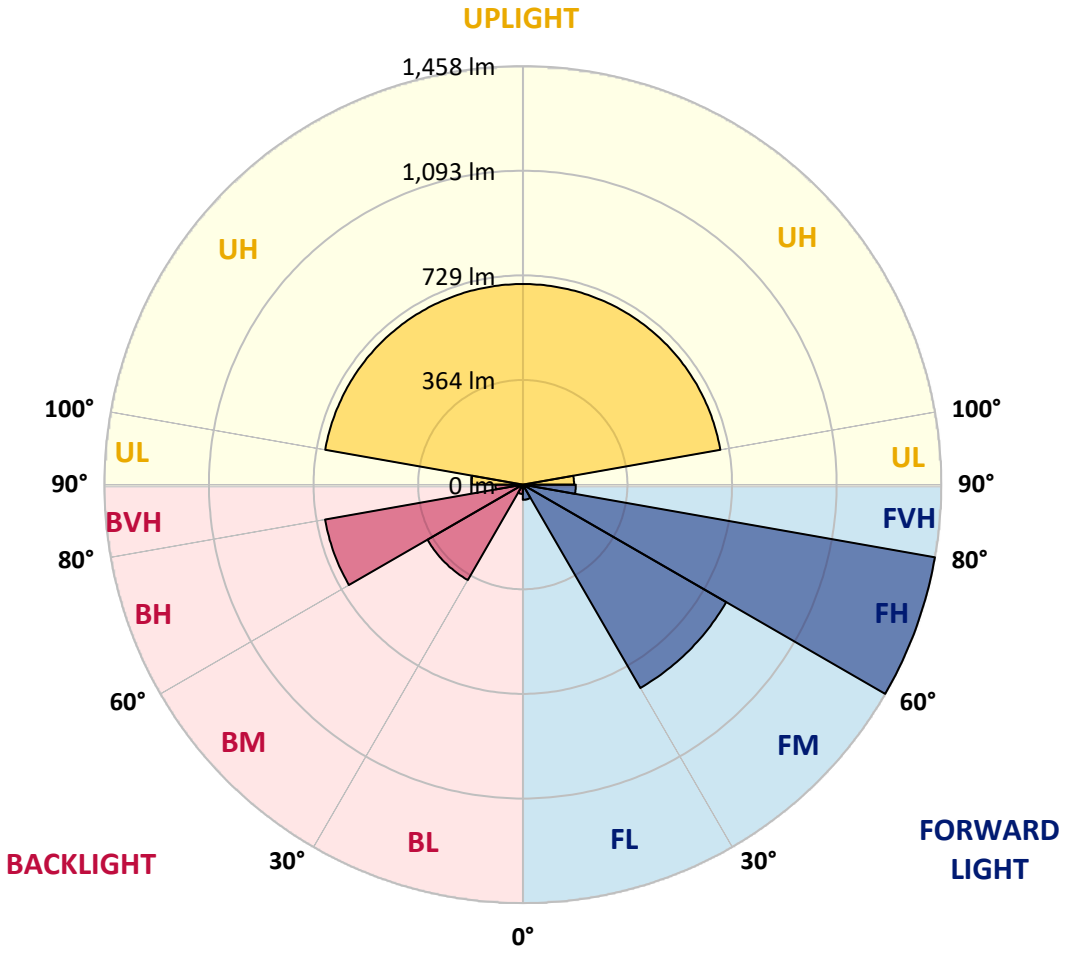
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	53.0	1.2			
FM	(30°-60°)	818.1	17.8			
FH	(60°-80°)	1457.7	31.7			G1/1800
FVH	(80°-90°)	184.6	4.0			G2/225
BL	(0°-30°)	32.4	0.7	B0/110		
BM	(30°-60°)	383.5	8.3	B1/1000		
BH	(60°-80°)	699.5	15.2	B2/1000		G2/1000
BVH	(80°-90°)	95.3	2.1			G1/100
UL	(90°-100°)	178.5	3.9		U3/500	
UH	(100°-180°)	698.7	15.2		U4/1000	

BUG Rating: B2-U4-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*28.7*	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	*29.0*	28.4	28.4	29.6	31.0	31.0	31.3	30.4	30.4	30.1	30.4
5°	*42.1*	41.0	41.6	41.9	42.4	43.0	43.6	43.6	42.4	41.6	39.2
7.5°	*58.8*	58.5	59.1	58.8	58.2	59.7	60.6	62.6	63.2	59.4	54.7
10°	*75.8*	74.9	74.6	74.9	75.2	74.3	76.1	77.6	75.5	71.1	67.0
12.5°	*94.3*	94.3	94.3	94.0	94.0	93.7	93.1	92.8	90.7	85.8	79.3
15°	*114.7*	115.0	115.6	115.3	113.9	111.5	109.8	108.3	107.1	103.6	95.4
17.5°	*127.3*	126.7	127.3	127.0	126.4	125.0	121.8	118.8	115.0	110.1	103.9
20°	*139.0*	138.7	138.5	138.5	137.9	136.1	134.1	129.4	124.4	119.1	112.1
22.5°	*148.1*	147.5	148.1	147.8	147.5	146.9	143.4	139.3	133.8	127.9	120.6
25°	*159.8*	159.5	159.8	158.9	158.9	158.1	156.0	150.7	144.6	138.2	129.1
27.5°	*172.7*	171.8	172.7	172.4	171.2	168.9	167.1	161.3	153.7	147.5	139.3
30°	*183.5*	183.5	184.1	182.4	183.5	181.5	177.4	170.9	164.5	156.6	148.1
32.5°	*194.9*	194.9	194.4	194.1	195.5	192.9	188.2	180.6	175.3	167.1	159.8
35°	*226.8*	224.5	228.3	228.0	235.3	230.1	221.3	211.0	202.8	192.3	182.6
37.5°	*318.5*	317.3	315.5	304.4	291.5	293.6	295.0	283.6	273.4	254.4	231.8
40°	*344.5*	344.2	343.9	337.5	341.0	331.6	327.0	321.1	319.3	294.5	264.3
42.5°	*365.9*	362.4	365.9	377.6	396.0	389.6	365.9	335.4	329.9	306.2	293.9
45°	*423.8*	421.5	427.4	430.9	425.0	414.5	421.2	399.0	383.7	350.1	327.5
47.5°	*493.2*	490.9	496.4	499.4	511.4	500.2	495.0	475.9	450.5	418.6	389.3
50°	*700.2*	673.8	695.2	687.9	690.8	665.9	675.9	648.6	625.8	573.4	520.4
52.5°	*988.5*	979.7	965.1	948.7	961.3	934.6	942.8	913.2	872.0	811.1	732.9
55°	*1378.7*	1349.1	1358.5	1392.1	1385.1	1337.4	1329.2	1257.2	1183.1	1092.1	1009.8
57.5°	*1889.1*	1874.5	1857.5	1835.0	1813.0	1763.6	1739.3	1658.8	1543.7	1416.7	1302.3
60°	*2236.6*	2224.9	2217.3	2148.5	2108.1	2008.6	1986.0	1930.1	1827.7	1689.5	1531.7
62°	*2305.7*	*2303.9*	*2288.4*	*2245.7*	*2233.7*	*2128.3*	*2059.8*	*1997.4*	*1922.2*	*1782.0*	*1644.7*
62.5°	*2305.1*	2301.6	2292.5	2256.8	2244.5	2145.8	2071.5	2005.3	1930.4	1792.8	1657.9
65°	*2258.2*	2250.3	2246.2	2224.9	2219.3	2161.4	2062.7	1994.5	1931.6	1780.0	1667.6
67.5°	*2082.0*	2091.4	2092.0	2070.6	2052.2	2017.6	1923.4	1864.3	1820.9	1662.9	1556.9
70°	*1690.1*	1677.5	1664.6	1674.6	1666.4	1647.7	1572.7	1498.4	1444.2	1361.4	1261.0
72.5°	*1242.3*	1262.2	1261.9	1264.8	1266.3	1219.1	1185.8	1143.0	1113.8	1042.0	970.3
75°	*995.8*	997.5	992.0	971.5	949.5	922.3	928.2	924.4	910.3	834.5	763.4
77.5°	*786.2*	766.9	774.8	742.6	714.2	713.9	725.3	736.5	742.6	681.7	626.7
80°	*553.5*	549.1	542.1	545.0	521.6	527.8	533.3	540.9	528.9	492.9	467.5
82.5°	*349.5*	345.7	340.1	367.1	389.6	384.6	366.8	338.1	331.3	334.0	328.1
85°	*330.5*	330.2	325.2	322.6	319.1	311.1	315.5	321.7	318.2	298.3	272.5
87.5°	*312.0*	311.1	307.3	305.9	299.1	298.3	302.4	304.7	306.2	288.3	266.7
90°	*273.4*	269.9	266.4	269.3	268.4	269.0	270.2	269.6	270.2	249.1	240.0
92.5°	*228.0*	227.1	224.5	226.0	228.0	236.2	232.7	227.1	226.3	217.8	209.0
95°	*208.1*	208.7	205.5	207.5	208.1	208.1	205.8	203.1	201.1	194.4	186.5
97.5°	*172.4*	169.8	168.6	170.1	170.6	168.6	167.1	162.7	162.5	155.7	151.9
100°	*146.6*	146.1	145.5	147.2	147.8	146.9	147.2	144.6	144.3	140.5	136.4
102.5°	*137.0*	136.7	136.4	137.9	138.5	137.9	137.0	134.4	134.9	130.8	127.9
105°	*129.4*	129.4	129.1	130.0	128.2	127.3	126.2	126.2	126.7	123.5	119.1
107.5°	*120.9*	120.6	120.9	120.6	118.5	117.7	117.4	116.5	118.5	116.8	112.1

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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*122.4*	122.4	122.1	118.8	117.7	116.2	115.6	117.1	116.5	113.6	110.6
112.5°	*149.9*	148.1	149.3	144.9	142.8	144.0	144.6	145.8	148.1	143.4	139.0
115°	*167.4*	167.7	170.6	170.6	166.3	168.3	168.3	168.0	170.4	166.8	162.5
117.5°	*136.7*	138.5	147.8	142.0	143.4	144.6	137.3	134.6	134.1	134.9	144.3
120°	*157.5*	155.1	163.9	145.5	139.9	139.9	145.2	151.9	144.6	133.5	136.4
122.5°	*257.6*	257.9	258.2	266.1	265.2	267.5	263.4	258.2	242.9	243.2	229.5
125°	*394.3*	390.5	390.5	387.0	386.4	380.8	387.8	392.2	380.5	360.6	339.0
127.5°	*377.3*	385.5	382.6	373.8	365.3	362.4	370.6	384.3	377.6	360.0	340.1
130°	*267.8*	269.9	269.3	278.7	281.0	278.1	281.0	271.0	272.5	276.6	266.1
132.5°	*224.5*	223.3	227.4	240.3	245.3	239.4	231.2	223.9	224.2	233.0	232.4
135°	*193.5*	192.6	195.5	196.1	201.7	197.0	189.7	189.7	191.4	193.5	192.6
137.5°	*174.7*	173.6	174.5	167.7	161.0	160.7	166.6	169.8	168.0	166.0	163.6
140°	*150.5*	151.0	149.6	144.0	141.1	141.7	145.5	150.5	149.0	144.6	141.1
142.5°	*119.7*	118.5	120.3	124.4	130.3	130.3	124.4	118.3	118.0	120.0	122.9
145°	*118.0*	117.4	117.7	116.8	118.0	116.8	115.0	113.3	111.2	109.8	108.6
147.5°	*127.9*	127.9	127.6	126.2	125.0	122.9	123.5	125.6	126.7	125.6	123.8
150°	*103.9*	104.8	104.8	104.5	103.3	104.2	105.4	106.0	107.1	107.1	105.4
152.5°	*79.9*	79.6	80.5	79.3	79.0	79.6	81.1	82.3	82.5	82.5	80.2
155°	*76.1*	75.5	76.1	75.5	74.9	75.5	76.7	77.3	77.9	77.0	74.6
157.5°	*71.1*	71.1	71.1	70.5	70.8	70.8	71.4	71.7	72.0	71.7	71.1
160°	*67.3*	67.3	67.6	67.3	67.3	67.9	67.6	67.3	67.3	67.0	66.7
162.5°	*65.0*	65.0	65.0	65.0	64.7	64.7	65.0	64.7	64.4	64.1	64.7
165°	*63.8*	63.5	63.5	63.5	63.8	63.5	63.5	63.5	63.2	64.1	65.3
167.5°	*66.2*	65.6	65.9	66.2	66.2	65.9	65.9	65.9	66.4	67.3	68.2
170°	*69.4*	69.1	69.1	69.4	69.4	69.1	69.1	69.1	69.4	69.7	70.0
172.5°	*72.0*	71.7	71.7	71.7	71.4	71.1	71.1	71.1	71.1	71.1	71.4
175°	*74.6*	74.6	74.6	74.6	74.3	74.1	74.1	74.1	74.1	74.1	74.1
177.5°	*77.6*	77.3	77.6	77.3	77.3	77.3	77.0	76.7	76.4	76.4	76.4
180°	*77.0*	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
2.5°	29.9	29.6	27.8	26.3	25.2	24.0	22.2	20.8	19.6	19.3	19.3
5°	38.6	38.1	36.3	34.0	32.8	31.0	29.3	28.1	26.6	26.1	26.3
7.5°	53.3	53.6	54.2	55.3	54.7	49.8	44.2	43.0	44.2	46.0	46.8
10°	66.2	65.3	65.0	68.8	67.9	60.6	53.3	50.9	53.0	56.8	58.5
12.5°	76.7	74.9	74.6	75.2	71.7	63.8	57.7	55.0	56.2	59.1	58.8
15°	92.2	89.6	85.8	83.4	79.0	73.5	65.9	61.5	61.5	61.5	61.2
17.5°	101.3	98.3	91.0	84.3	78.7	74.6	69.7	65.6	61.2	60.6	60.3
20°	109.2	104.8	96.9	89.6	82.5	76.7	69.7	64.7	60.9	60.3	60.0
22.5°	115.9	111.8	103.3	94.5	85.8	79.0	71.4	66.2	62.3	61.2	60.9
25°	125.0	120.6	110.9	100.7	90.4	82.0	74.9	68.8	64.1	61.8	61.8
27.5°	134.1	129.1	118.3	107.7	96.6	86.1	78.2	72.0	66.2	62.9	62.6
30°	142.8	137.3	125.6	113.6	102.4	91.3	82.3	75.2	68.8	65.3	65.0
32.5°	155.1	148.7	134.9	120.0	108.9	96.9	86.6	78.4	71.7	68.2	67.6
35°	179.1	171.8	156.3	137.0	119.4	103.3	91.0	80.2	73.8	70.0	69.7
37.5°	223.6	215.1	193.5	169.8	145.8	121.5	98.9	82.5	75.2	71.7	71.1
40°	250.3	233.6	210.7	192.0	173.9	150.5	121.5	95.7	78.2	74.1	73.5
42.5°	284.8	267.5	234.5	198.7	175.6	157.2	136.7	120.0	94.8	80.2	77.6
45°	317.6	304.4	276.0	238.0	202.8	170.9	145.5	129.4	113.3	96.6	94.0
47.5°	372.6	353.3	315.8	276.9	241.2	205.5	175.3	144.0	123.2	113.3	112.7
50°	513.7	478.6	424.4	377.9	310.6	255.8	220.1	178.3	151.6	136.1	131.1
52.5°	696.1	659.5	597.7	530.4	455.7	385.2	315.2	255.2	211.9	184.7	185.6
55°	967.7	931.1	840.4	725.0	622.6	549.1	474.2	401.3	331.6	291.5	286.6
57.5°	1254.3	1221.5	1143.9	1003.1	840.1	704.3	615.3	563.8	528.0	484.4	484.4
60°	1464.4	1410.0	1322.2	1180.2	1035.6	857.0	742.9	669.1	662.7	655.1	660.9
62°	*1571.8*	*1501.6*	*1376.3*	*1216.8*	*1082.4*	*923.5*	*812.6*	*739.4*	*726.5*	*697.8*	*698.4*
62.5°	1590.0	1512.4	1385.4	1216.8	1086.5	929.3	820.2	748.7	730.9	695.8	696.4
65°	1608.1	1514.8	1392.1	1197.2	1063.4	909.1	825.1	732.1	685.2	626.4	609.1
67.5°	1503.9	1408.2	1303.1	1113.2	974.1	825.1	732.1	638.7	562.3	502.6	493.2
70°	1221.5	1146.2	1065.2	920.0	798.5	677.9	598.9	514.6	438.5	372.6	376.7
72.5°	927.0	856.8	782.4	690.2	614.7	533.6	463.6	395.7	332.5	291.5	299.1
75°	718.0	671.2	618.5	551.5	494.1	419.2	339.5	279.2	236.5	211.6	213.1
77.5°	590.4	541.8	498.8	437.3	382.9	306.2	229.5	178.0	153.1	142.0	139.0
80°	454.0	418.6	380.5	325.5	265.5	206.4	154.3	130.3	113.9	105.7	102.4
82.5°	317.0	295.0	263.1	223.3	188.8	167.1	144.6	124.4	107.4	99.8	96.3
85°	261.1	249.4	231.8	209.3	188.8	164.8	139.6	119.1	104.5	98.6	95.4
87.5°	254.4	246.5	226.6	202.6	178.0	153.4	127.9	108.9	99.5	95.7	92.8
90°	233.3	224.2	210.2	186.5	164.5	138.2	117.4	106.0	98.9	94.5	91.3
92.5°	203.4	198.5	185.6	168.6	153.4	136.4	121.5	111.2	103.9	98.6	95.4
95°	180.9	175.0	167.7	154.0	141.4	127.6	113.9	104.2	96.6	91.0	88.4
97.5°	148.7	144.6	137.6	128.5	119.1	108.0	98.3	91.9	86.9	84.3	82.5
100°	134.9	132.3	128.2	121.8	114.2	106.3	99.2	95.7	93.7	91.9	91.0
102.5°	125.0	122.1	118.8	112.1	106.3	99.2	94.5	91.6	89.0	86.1	85.5
105°	116.2	113.9	109.5	103.9	98.1	91.3	85.8	84.0	81.7	79.0	78.7
107.5°	109.5	107.1	103.3	97.5	92.2	86.3	81.4	78.7	76.1	74.6	74.3

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

Scaled Data Report

REPORT NUMBER: P1046378
CATALOG NUMBER: FFX-CLB-30-727-U-FR-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	108.9	107.1	103.0	98.1	94.0	88.1	82.5	81.7	78.7	75.2	74.9
112.5°	135.8	130.3	122.4	114.2	107.1	101.3	94.3	87.2	81.4	77.9	77.3
115°	157.5	151.9	142.3	130.3	119.1	106.5	94.5	85.8	82.5	81.7	82.8
117.5°	148.1	136.4	120.0	112.7	103.0	96.3	91.6	89.6	84.3	85.8	87.2
120°	142.3	134.4	120.0	118.8	114.4	106.8	96.0	93.7	90.7	88.4	88.1
122.5°	228.6	221.0	204.6	179.7	152.8	134.6	127.9	113.9	96.9	84.0	82.0
125°	324.0	311.7	279.5	252.0	216.3	178.0	143.4	113.9	90.7	78.4	77.0
127.5°	330.5	316.7	288.6	251.4	206.1	159.2	123.5	102.2	86.6	78.4	77.0
130°	257.6	248.8	228.0	193.2	161.9	134.1	113.9	96.6	82.5	76.4	75.5
132.5°	227.7	219.8	190.3	161.3	140.5	119.1	102.2	85.8	73.8	69.7	69.1
135°	188.2	179.4	159.8	142.0	126.7	109.5	92.5	78.4	70.0	67.9	67.6
137.5°	160.7	156.6	142.0	129.4	115.6	100.7	86.6	75.8	70.5	68.8	68.5
140°	138.7	137.9	128.8	117.7	103.9	88.1	77.3	70.8	68.8	67.9	67.6
142.5°	122.6	121.5	111.5	98.6	86.3	78.2	74.1	72.0	70.2	67.9	67.3
145°	106.3	104.2	98.1	92.5	88.7	86.1	82.3	75.8	69.1	65.6	65.3
147.5°	120.9	117.4	110.6	102.7	94.5	86.1	78.2	71.4	65.9	63.8	63.5
150°	101.6	101.3	96.9	90.7	84.6	77.0	71.1	66.7	64.4	64.1	64.1
152.5°	78.7	78.7	78.7	77.3	74.3	70.2	65.9	63.2	63.2	64.4	64.7
155°	74.1	74.3	74.6	74.1	71.7	67.9	64.1	62.9	63.2	64.4	64.7
157.5°	70.5	70.5	70.8	70.2	69.1	66.4	63.8	62.6	62.9	63.5	63.8
160°	66.4	66.4	66.7	66.7	65.6	64.7	63.5	62.6	62.6	62.9	63.2
162.5°	65.0	65.0	65.0	65.0	64.7	64.7	64.7	64.7	64.4	64.4	64.4
165°	65.6	65.6	64.7	64.4	65.0	65.9	67.3	67.6	66.2	65.9	65.9
167.5°	68.5	68.5	67.6	67.0	67.9	68.8	70.8	71.4	70.2	69.1	69.1
170°	70.2	70.2	70.2	70.5	70.8	71.7	72.9	73.5	73.2	72.9	72.9
172.5°	71.4	71.4	72.0	72.6	73.5	74.1	74.6	75.2	75.8	75.8	76.1
175°	73.8	74.1	74.6	74.9	75.5	76.1	76.7	77.3	77.6	77.6	77.6
177.5°	76.1	76.1	76.1	76.4	76.7	77.0	77.3	77.6	77.6	77.9	78.2
180°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0

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

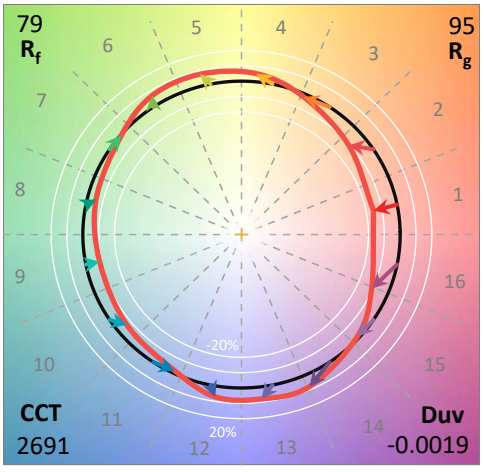
Test Method:	LM-79-2019
Report Number:	SP1-2501-332-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	03/31/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**FFX-CLB-20-727-U-FR-T5-UPLR-P-HSS**
Description:	

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

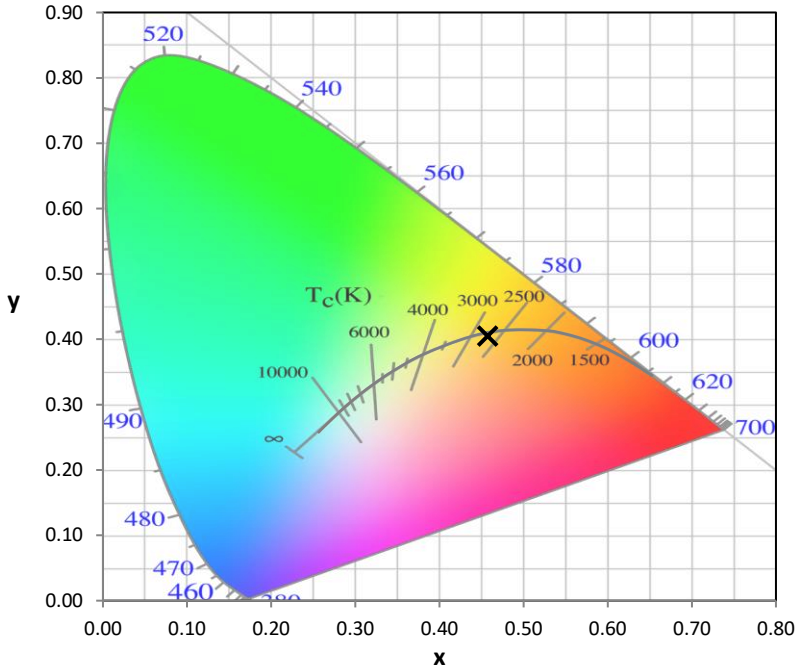
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.5

REPORT NUMBER: SP1-2501-332-8

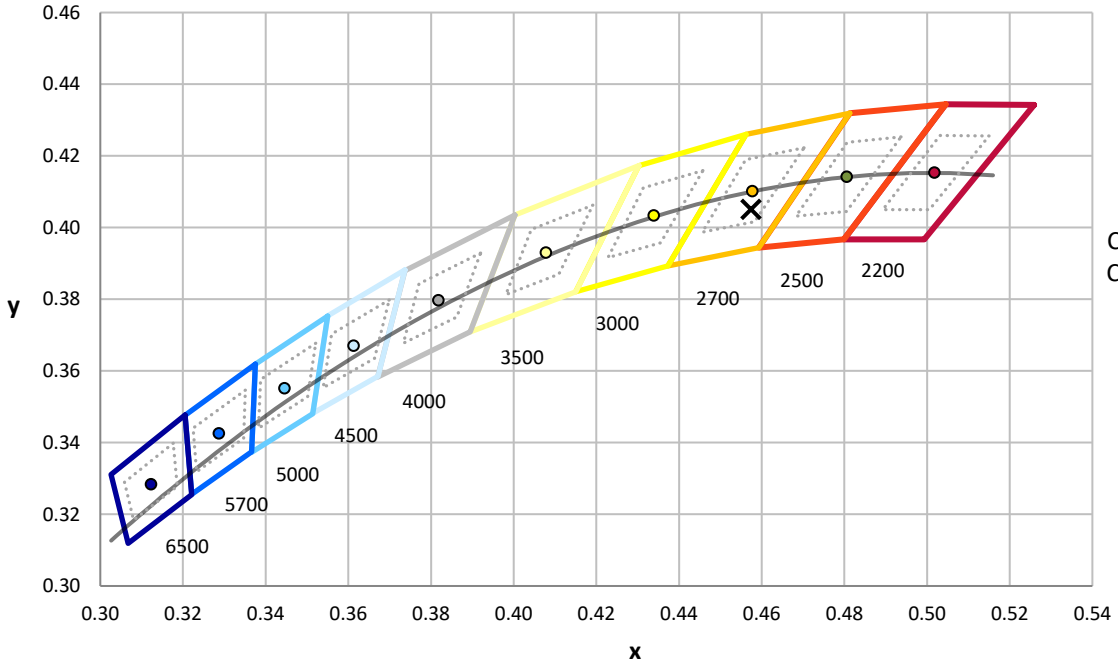
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

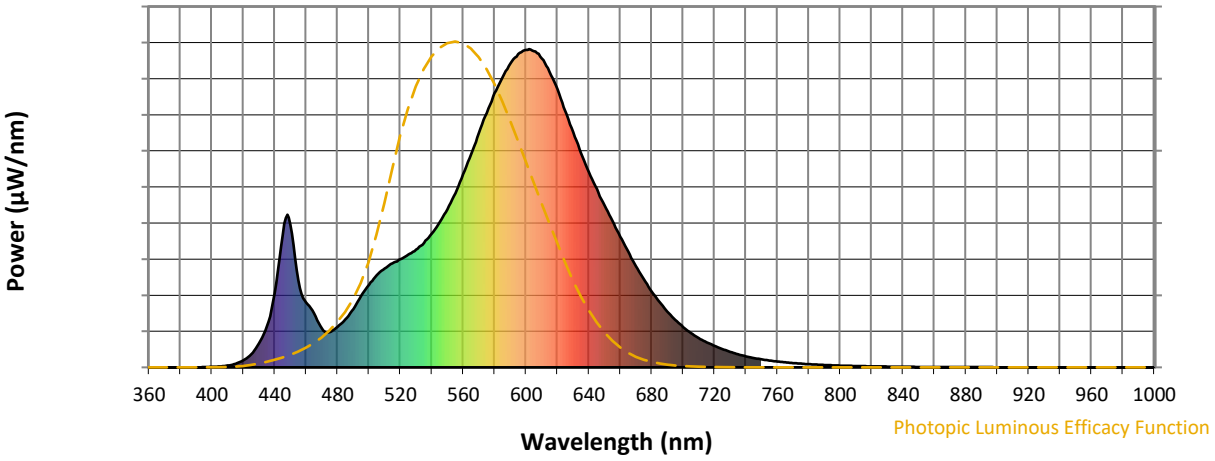


CCT = 2691K
CIE x = 0.4574
CIE y = 0.4050
Duv = -0.0019

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-8

Photopic Flux vs. Wavelength

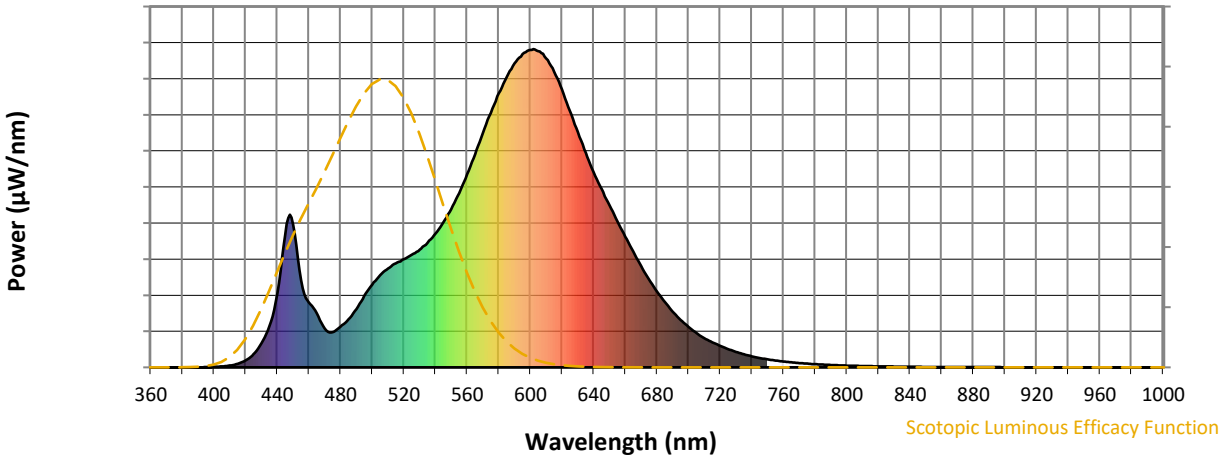


Photopic Lumens: NR

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

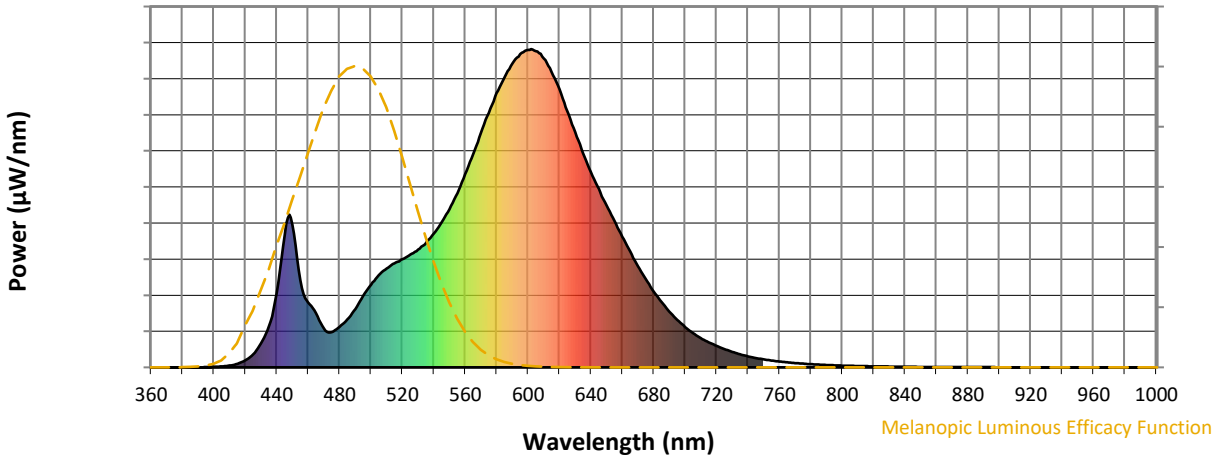


Scotopic Lumens: NR **S/P: 1.18**

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			

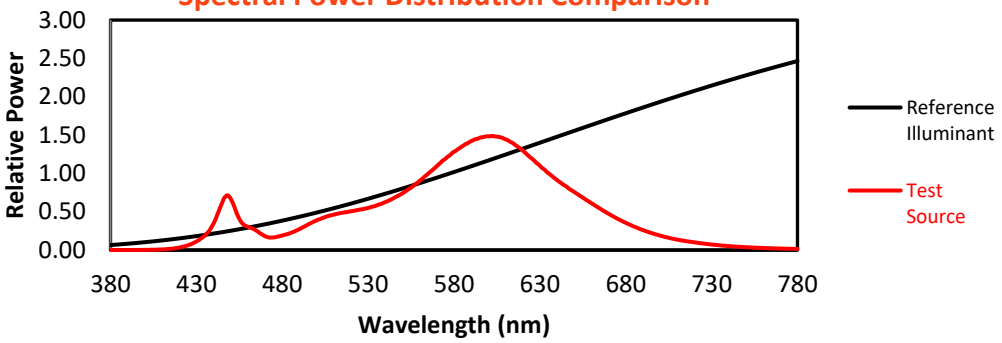
REPORT NUMBER: SP1-2501-332-8

TM-30-18

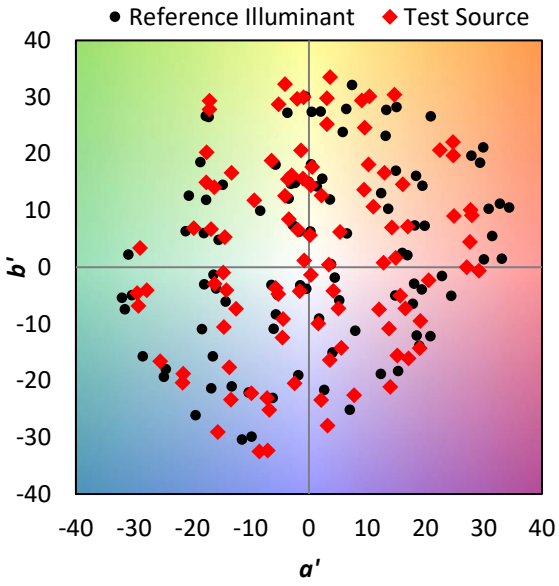
Summary

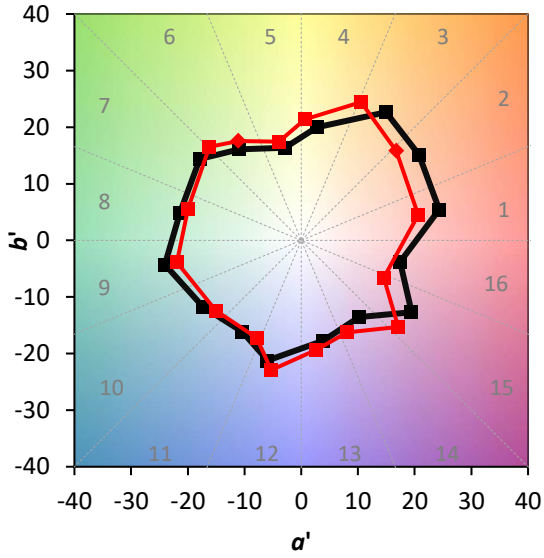
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R_g = 95.1
CIE R_a = 75.2
R_9 = -22.6

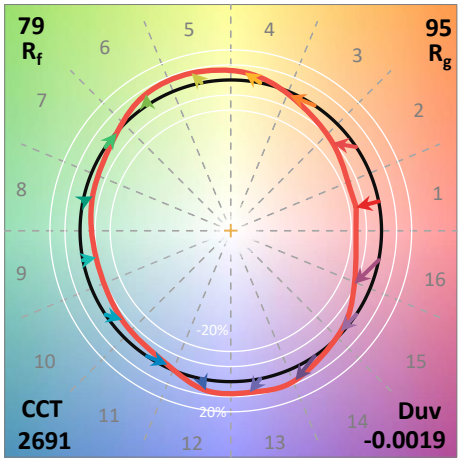
Spectral Power Distribution Comparison

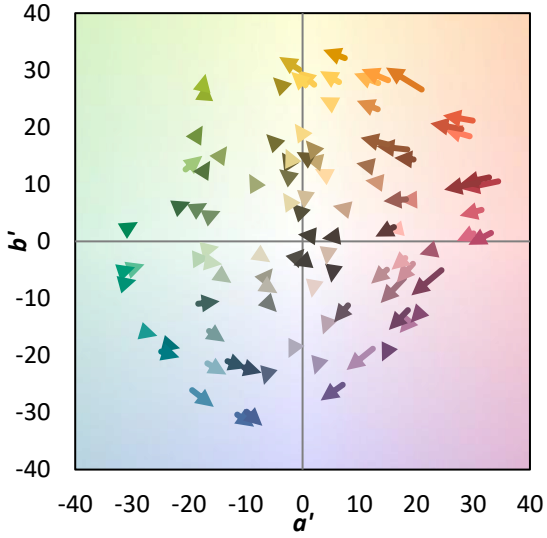


Color Vector Graphics







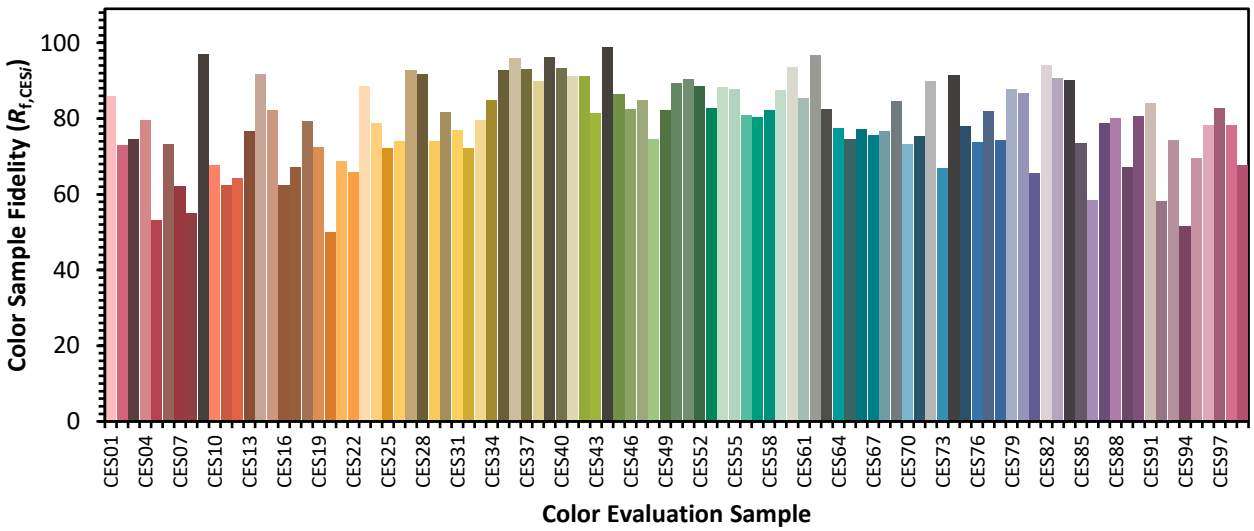


REPORT NUMBER: SP1-2501-332-8

TM-30-18

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

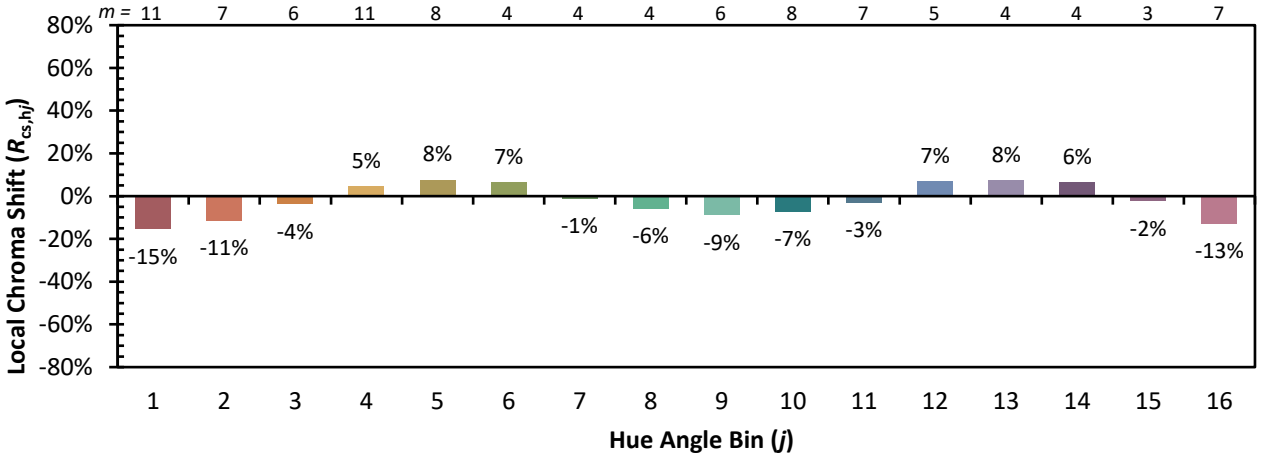
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CES02 = 64	CES27 = 93	CES52 = 88	CES77 = 82
CES03 = 31	CES28 = 92	CES53 = 83	CES78 = 74
CES04 = 71	CES29 = 74	CES54 = 88	CES79 = 88
CES05 = 50	CES30 = 82	CES55 = 88	CES80 = 87
CES06 = 52	CES31 = 77	CES56 = 81	CES81 = 66
CES07 = 42	CES32 = 72	CES57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

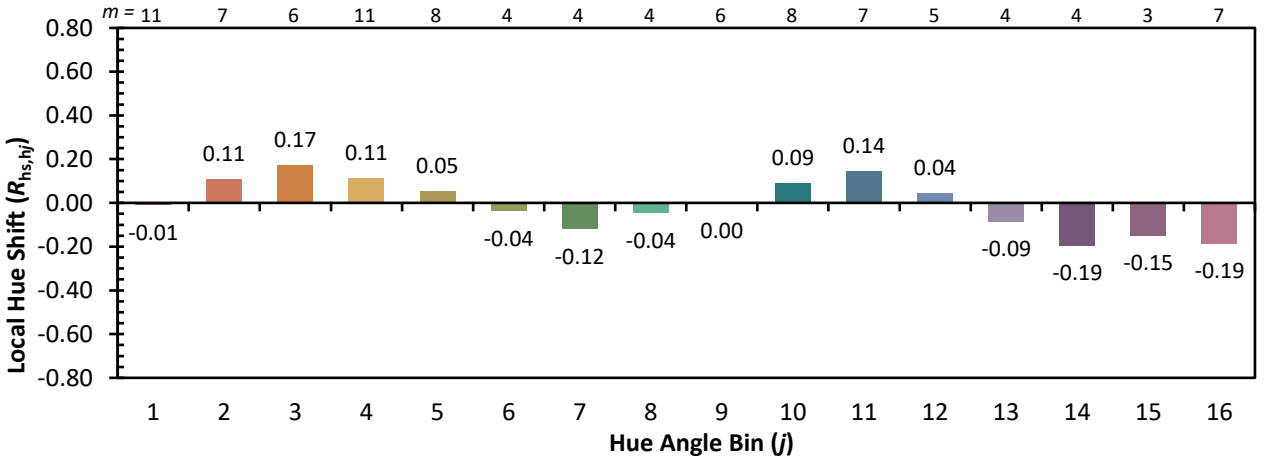


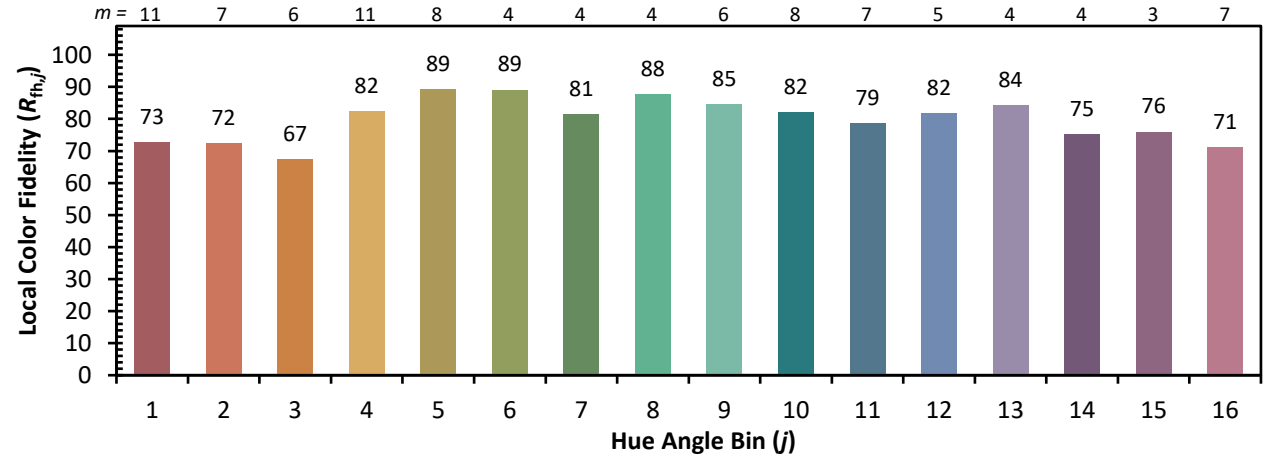
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Color Rendition by Hue-Angle Bin



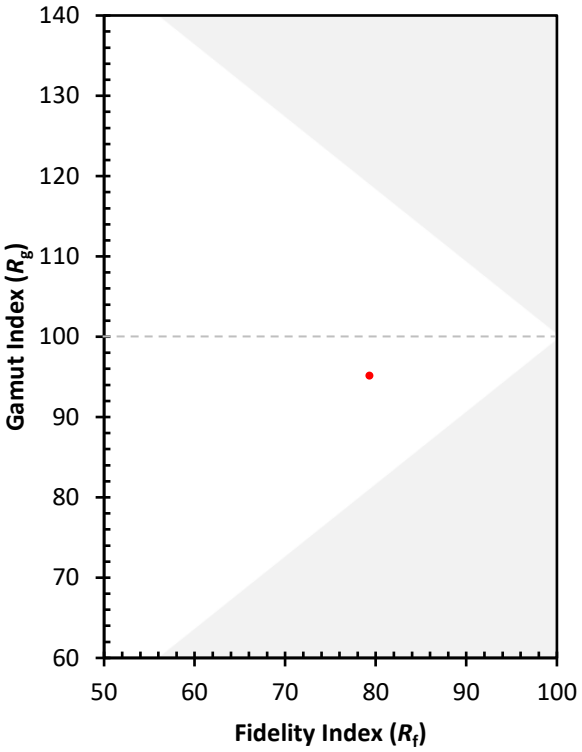


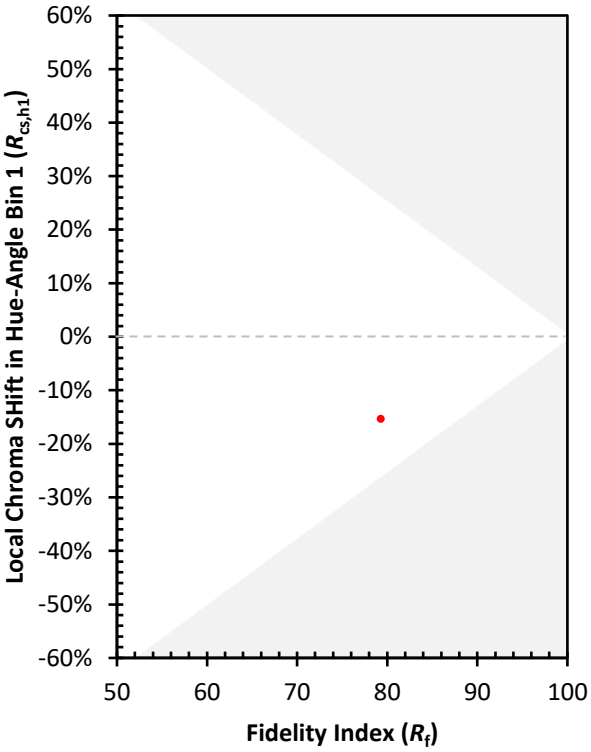


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Measure Comparisons





(END OF REPORT)