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: P1045753

Luminaire Tested: **FFX-CLB-70-730-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:	P1045753
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-U-FR-T5-UPLR-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS, UPLIGHT REFLECTOR AND HOUSESIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7192.9 lumens
Efficiency:	N/A
Efficacy:	101.0 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U4 - G3

Input Watts (W):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

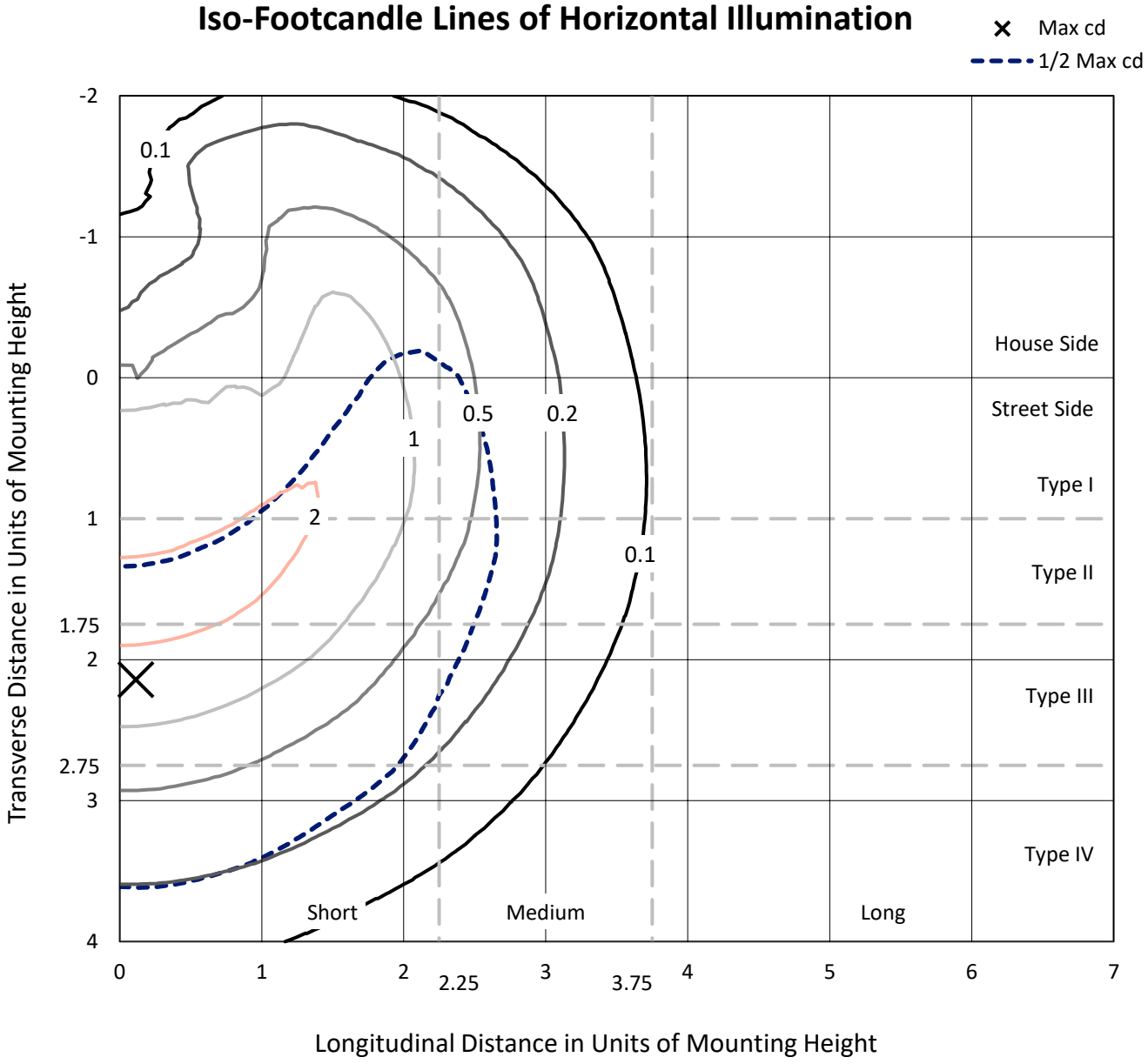


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Iso-Footcandle Lines of Horizontal Illumination



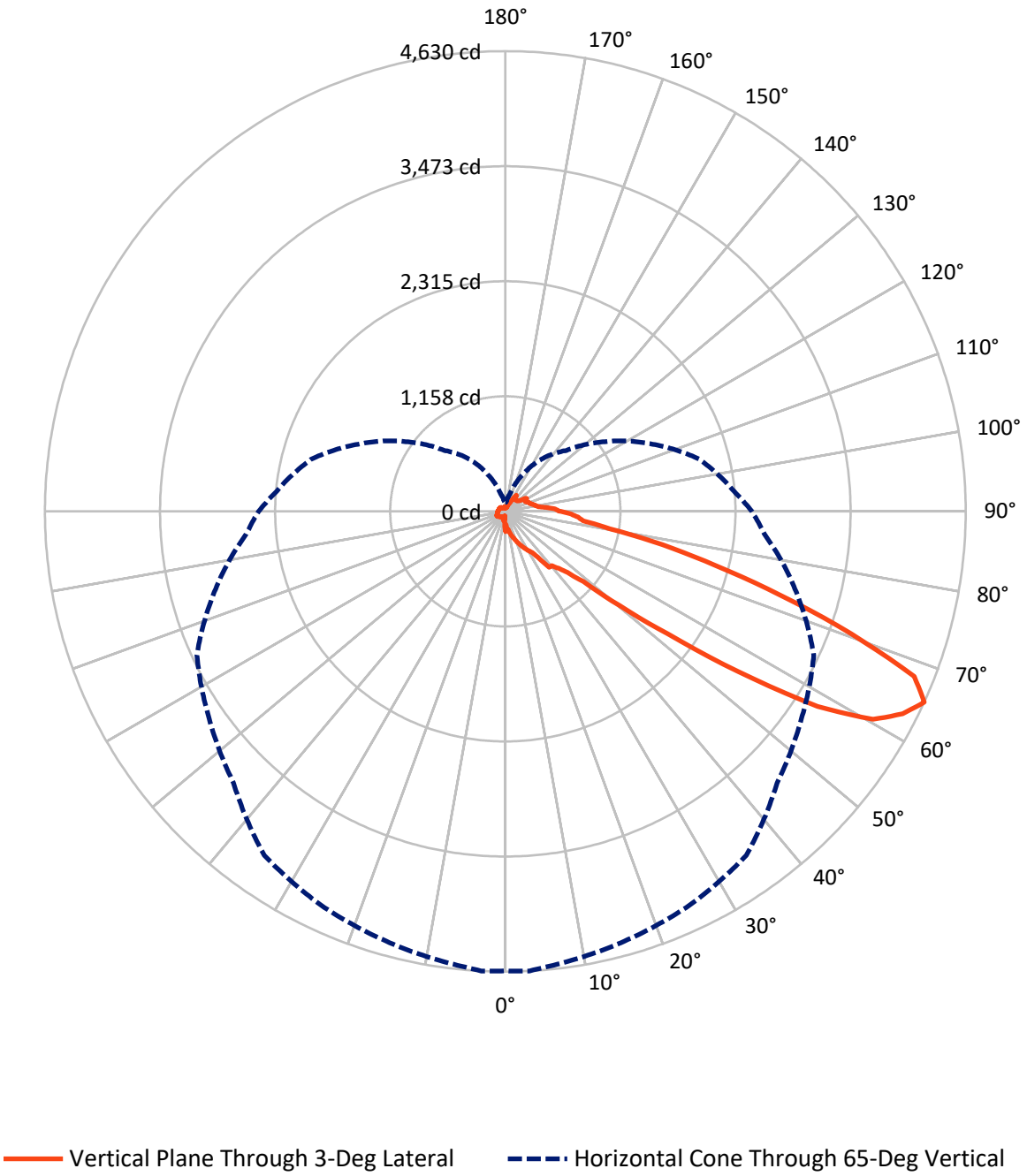
Based on 15 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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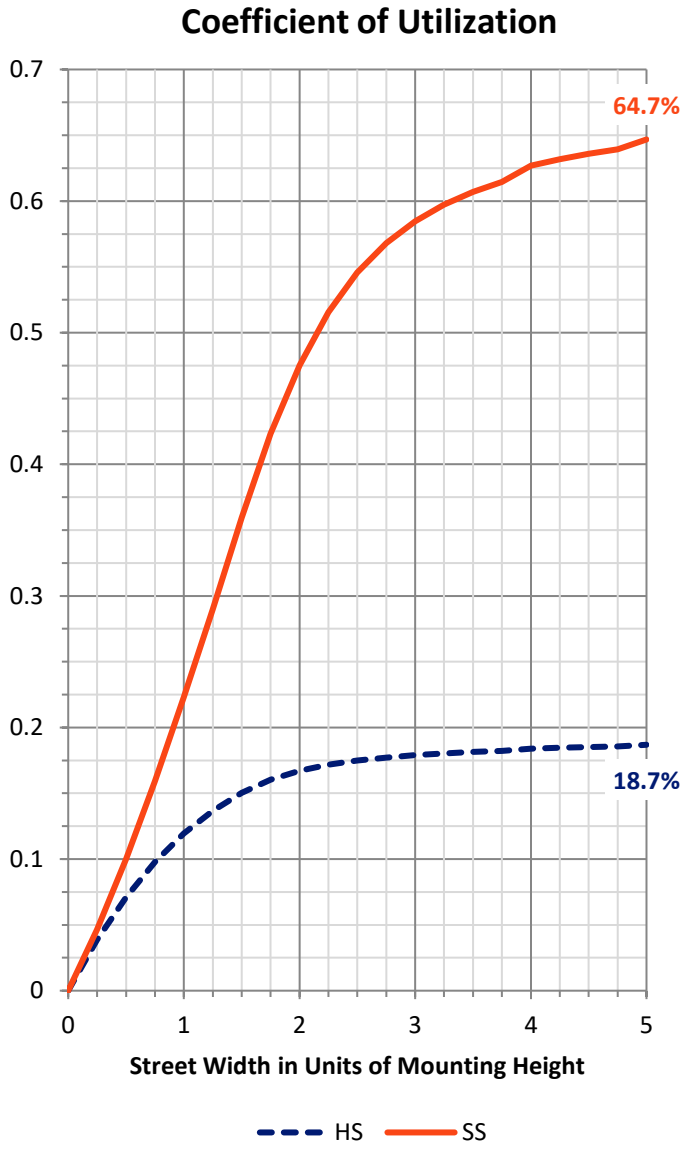
REPORT NUMBER: P1045753
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.6	302.6	1694.2
	% Fixture	19.3	4.2	23.6
Street Side	Lumens	4852.6	646.1	5498.7
	% Fixture	67.5	9.0	76.4
Total	Lumens	6244.2	948.7	7192.9
	% Fixture	86.8	13.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.2
10°-20°	49.0	0.7
20°-30°	109.3	1.5
30°-40°	221.0	3.1
40°-50°	443.9	6.2
50°-60°	1424.6	19.8
60°-70°	2272.3	31.6
70°-80°	1236.1	17.2
80°-90°	475.0	6.6
90°-100°	283.1	3.9
100°-110°	187.9	2.6
110°-120°	149.7	2.1
120°-130°	124.8	1.7
130°-140°	85.9	1.2
140°-150°	69.4	1.0
150°-160°	31.0	0.4
160°-170°	12.6	0.2
170°-180°	4.2	0.1
0°-90°	6244.2	86.8
0°-180°	7192.9	100.0



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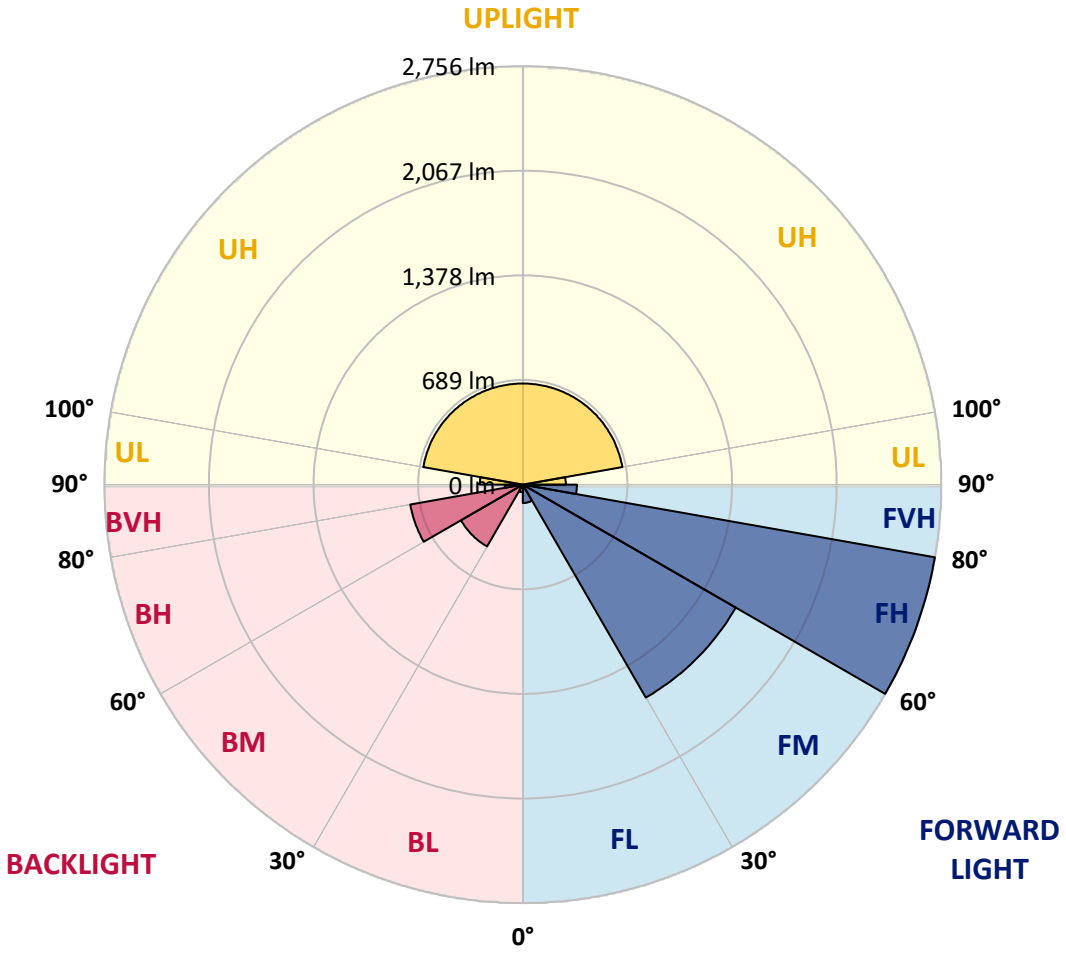
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	121.3	1.7			
FM	(30°-60°)	1619.4	22.5			
FH	(60°-80°)	2755.9	38.3			G2/5000
FVH	(80°-90°)	356.1	5.0			G3/500
BL	(0°-30°)	49.9	0.7	B0/110		
BM	(30°-60°)	470.2	6.5	B1/1000		
BH	(60°-80°)	752.6	10.5	B2/1000		G2/1000
BVH	(80°-90°)	118.9	1.7			G2/225
UL	(90°-100°)	283.1	3.9		U3/500	
UH	(100°-180°)	665.5	9.3		U4/1000	

BUG Rating: B2-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3
2.5°	131.4	130.6	133.1	144.6	174.4	184.3	176.0	162.0	159.5	174.4	185.9
5°	179.3	177.7	176.0	164.5	152.9	158.7	175.2	179.3	162.8	132.2	112.4
7.5°	181.8	180.2	181.0	181.0	178.5	167.8	155.4	161.2	175.2	156.2	123.1
10°	202.5	201.6	201.6	200.8	198.3	195.0	194.2	181.8	160.3	143.8	137.2
12.5°	236.4	236.4	235.5	234.7	232.2	226.4	219.0	209.1	202.5	182.6	162.0
15°	263.6	261.1	262.8	260.3	256.2	252.9	243.8	233.1	213.2	200.0	181.8
17.5°	290.1	290.1	290.9	286.8	281.8	279.3	269.4	255.4	236.4	213.2	195.9
20°	323.1	320.7	320.7	316.5	310.7	302.5	293.4	281.0	265.3	233.9	210.7
22.5°	354.5	355.4	355.4	348.7	339.7	332.2	319.8	304.9	290.1	257.8	228.1
25°	390.1	389.2	388.4	387.6	378.5	365.3	349.6	333.9	323.1	291.7	250.4
27.5°	423.1	421.5	420.6	424.8	416.5	403.3	380.2	361.1	349.6	317.3	271.1
30°	459.5	458.7	458.7	460.3	457.0	436.4	411.6	389.2	372.7	340.5	290.9
32.5°	491.7	490.1	490.9	497.5	496.7	470.2	447.9	420.6	400.0	374.4	319.8
35°	571.1	567.8	572.7	582.6	590.1	562.0	531.4	489.2	457.8	431.4	375.2
37.5°	714.0	714.9	716.5	703.3	675.2	654.5	639.6	605.8	566.9	522.3	456.2
40°	719.8	719.0	723.1	743.0	754.5	719.0	684.3	644.6	634.7	596.7	512.4
42.5°	786.8	781.8	785.9	804.9	820.6	799.1	768.6	701.6	665.3	631.4	562.0
45°	882.6	876.8	884.3	887.6	884.3	861.1	866.1	811.5	777.7	709.1	612.4
47.5°	1028.9	1055.3	1059.5	1060.3	1093.4	1062.0	1042.1	990.1	913.2	831.4	721.5
50°	1444.6	1487.6	1472.7	1458.6	1461.1	1437.1	1409.9	1338.0	1234.7	1096.7	939.6
52.5°	2061.9	2045.4	2047.9	2057.0	2080.1	1973.5	1927.2	1819.0	1652.0	1486.7	1260.3
55°	2817.3	2845.4	2843.7	2873.5	2869.3	2754.5	2608.2	2426.4	2183.4	1941.3	1673.5
57.5°	3751.1	3701.5	3668.5	3613.9	3566.8	3410.6	3313.9	3117.3	2795.8	2432.2	2088.4
60°	4275.1	4247.8	4239.5	4164.3	4099.9	3908.1	3709.0	3495.8	3244.5	2814.8	2424.7
62.5°	4471.8	4485.0	4473.4	4424.7	4381.7	4213.9	3879.2	3647.0	3422.2	3009.0	2598.3
65°	4623.0	4630.4	4604.0	4493.3	4375.9	4225.5	3865.2	3636.3	3423.0	3016.4	2614.8
67.5°	4437.9	4436.2	4415.6	4256.1	4057.7	3909.0	3581.7	3335.4	3154.4	2814.8	2427.2
70°	3685.0	3690.0	3694.1	3576.7	3359.4	3248.7	2917.3	2705.7	2549.5	2256.1	1977.6
72.5°	2885.0	2899.9	2906.5	2814.8	2653.6	2539.6	2318.1	2159.4	2014.0	1780.9	1561.9
75°	2170.2	2185.1	2180.9	2123.9	2010.7	1979.3	1871.8	1736.3	1614.8	1433.8	1248.7
77.5°	1628.0	1615.7	1612.3	1557.0	1445.4	1453.7	1423.1	1345.4	1251.2	1144.6	1015.7
80°	1078.5	1067.7	1046.2	1065.3	1056.2	1029.7	979.3	939.6	902.5	838.8	768.6
82.5°	793.4	790.1	785.9	773.5	765.3	758.7	736.3	672.7	628.1	591.7	549.6
85°	742.1	732.2	733.9	712.4	686.8	663.6	646.3	619.0	584.3	527.3	466.1
87.5°	647.9	647.9	643.0	628.1	602.5	596.7	584.3	565.3	544.6	500.8	446.3
90°	538.8	535.5	535.5	534.7	528.9	524.8	500.8	483.5	474.4	430.6	392.5
92.5°	497.5	495.9	492.5	488.4	471.9	468.6	444.6	422.3	402.5	375.2	345.4
95°	404.1	407.4	400.0	399.2	390.9	385.9	366.9	356.2	343.0	320.7	293.4
97.5°	341.3	336.4	337.2	329.7	321.5	318.2	306.6	290.9	278.5	261.1	241.3
100°	313.2	312.4	310.7	304.9	293.4	285.9	273.5	258.7	246.3	230.6	214.0
102.5°	295.0	294.2	293.4	288.4	275.2	271.1	259.5	247.9	237.2	223.1	201.6
105°	276.9	276.0	274.4	268.6	260.3	256.2	245.4	238.8	228.1	215.7	195.0
107.5°	260.3	260.3	259.5	252.9	247.9	244.6	233.9	228.1	216.5	205.8	185.9
110°	252.1	252.1	251.2	246.3	236.4	231.4	221.5	214.0	203.3	192.6	176.9

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CANDELA DISTRIBUTION (continued):

	0°	3°	5°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	243.0	*243.8*	243.8	245.4	221.5	212.4	204.1	198.3	189.3	179.3	166.1
115°	222.3	*223.1*	222.3	230.6	222.3	209.9	205.0	195.0	183.5	167.8	153.7
117.5°	224.0	*224.0*	225.6	229.7	225.6	214.0	203.3	190.9	181.0	165.3	152.9
120°	253.7	*252.1*	252.1	243.8	242.1	231.4	224.0	210.7	194.2	178.5	161.2
122.5°	243.8	*243.0*	243.8	230.6	229.7	227.3	224.8	222.3	200.8	191.7	169.4
125°	195.0	*193.4*	192.6	187.6	195.9	190.1	188.4	194.2	180.2	171.9	159.5
127.5°	174.4	*172.7*	171.9	170.2	175.2	165.3	163.6	165.3	154.5	144.6	137.2
130°	166.9	*164.5*	164.5	170.2	177.7	169.4	160.3	153.7	149.6	143.0	130.6
132.5°	157.8	*157.8*	158.7	166.1	179.3	170.2	153.7	140.5	138.8	139.7	133.9
135°	155.4	*154.5*	155.4	152.9	152.1	147.1	139.7	128.9	126.4	133.1	126.4
137.5°	159.5	*158.7*	157.8	151.2	143.8	139.7	138.0	131.4	124.8	120.7	114.0
140°	157.8	*157.8*	157.0	155.4	150.4	142.1	140.5	133.9	127.3	119.8	111.6
142.5°	160.3	*162.8*	164.5	166.1	164.5	155.4	146.3	135.5	128.1	124.0	114.9
145°	197.5	*197.5*	197.5	194.2	188.4	181.0	174.4	166.9	161.2	147.9	135.5
147.5°	163.6	*163.6*	162.8	163.6	163.6	160.3	159.5	157.0	157.8	151.2	138.8
150°	113.2	*115.7*	115.7	119.8	121.5	119.8	119.8	121.5	119.0	118.2	111.6
152.5°	91.7	*90.9*	89.3	90.9	90.9	91.7	91.7	90.1	89.3	89.3	85.1
155°	81.0	*81.0*	81.0	80.2	78.5	79.3	80.2	80.2	77.7	76.0	72.7
157.5°	64.5	*63.6*	63.6	65.3	65.3	65.3	65.3	65.3	65.3	66.1	66.9
160°	54.5	*52.9*	53.7	53.7	54.5	55.4	54.5	55.4	55.4	56.2	55.4
162.5°	44.6	*43.8*	43.8	44.6	45.5	46.3	47.1	47.1	47.9	49.6	50.4
165°	39.7	*39.7*	39.7	40.5	40.5	41.3	42.1	43.0	44.6	47.1	47.9
167.5°	37.2	*37.2*	37.2	37.2	38.0	38.8	40.5	43.0	44.6	47.1	47.1
170°	36.4	*36.4*	37.2	37.2	37.2	38.0	41.3	43.8	44.6	45.5	45.5
172.5°	38.0	*38.0*	38.0	38.0	38.0	39.7	43.8	44.6	44.6	44.6	45.5
175°	39.7	*39.7*	38.8	38.8	39.7	40.5	41.3	45.5	47.1	47.9	49.6
177.5°	37.2	*37.2*	37.2	38.0	38.0	38.8	39.7	41.3	41.3	43.0	45.5
180°	41.3	*41.3*	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3
2.5°	194.2	208.3	190.9	172.7	159.5	166.9	175.2	168.6	161.2	162.0	147.9
5°	116.5	119.8	121.5	105.8	87.6	97.5	119.0	111.6	85.9	47.9	41.3
7.5°	112.4	107.4	105.8	117.4	106.6	71.1	55.4	50.4	66.9	80.2	84.3
10°	133.1	127.3	114.9	94.2	83.5	78.5	76.9	73.6	63.6	49.6	47.1
12.5°	152.9	146.3	134.7	124.8	110.7	92.6	81.0	77.7	83.5	93.4	93.4
15°	172.7	163.6	148.8	135.5	124.8	105.0	90.1	76.9	75.2	77.7	77.7
17.5°	186.8	176.9	159.5	141.3	122.3	103.3	85.9	72.7	66.9	65.3	65.3
20°	200.8	191.7	171.1	151.2	128.1	105.8	85.9	71.9	65.3	62.8	62.0
22.5°	219.0	207.4	184.3	162.8	134.7	107.4	85.1	72.7	65.3	61.2	60.3
25°	239.7	226.4	200.0	174.4	141.3	109.1	85.9	73.6	66.1	61.2	60.3
27.5°	256.2	242.1	216.5	187.6	149.6	113.2	89.3	75.2	66.9	62.0	61.2
30°	275.2	260.3	231.4	201.6	159.5	119.8	95.9	80.2	70.2	63.6	63.6
32.5°	304.1	284.3	252.1	214.9	169.4	127.3	103.3	85.9	73.6	68.6	68.6
35°	351.2	331.4	288.4	240.5	180.2	134.7	109.1	91.7	77.7	71.1	71.1
37.5°	426.4	396.7	348.7	282.6	197.5	140.5	115.7	95.9	80.2	71.1	69.4
40°	470.2	437.2	376.8	314.0	219.0	147.9	120.7	99.2	81.8	71.9	71.1
42.5°	519.0	481.0	403.3	322.3	233.1	165.3	128.1	102.5	83.5	74.4	72.7
45°	570.2	533.9	463.6	366.1	266.1	189.3	140.5	109.1	88.4	77.7	76.0
47.5°	663.6	619.0	528.1	428.1	314.9	227.3	167.8	119.8	94.2	81.0	79.3
50°	873.5	832.2	705.8	556.2	392.5	281.8	209.9	142.1	103.3	83.5	81.0
52.5°	1157.8	1084.3	941.3	753.7	547.9	395.0	280.2	191.7	117.4	85.9	81.8
55°	1571.0	1489.2	1277.6	1033.0	750.4	573.5	424.0	288.4	166.9	88.4	81.0
57.5°	1981.8	1882.6	1704.9	1370.2	1008.2	731.4	566.9	422.3	243.0	99.2	83.5
60°	2276.0	2155.3	1935.5	1628.9	1223.1	860.3	640.5	460.3	270.2	101.6	85.9
62.5°	2449.5	2298.3	2022.3	1656.1	1274.3	914.0	670.2	434.7	232.2	99.2	89.3
65°	*2480.9*	*2309.0*	*2022.3*	*1609.0*	*1221.5*	*866.9*	*647.9*	*401.6*	*183.5*	*95.0*	*91.7*
67.5°	2300.8	2140.4	1898.3	1477.6	1083.4	744.6	557.8	330.6	139.7	91.7	90.9
70°	1888.4	1767.7	1570.2	1207.4	879.3	605.8	443.8	254.5	113.2	87.6	85.9
72.5°	1473.5	1361.9	1214.0	947.1	680.1	480.2	338.8	199.2	100.8	84.3	83.5
75°	1159.5	1076.0	953.7	747.9	511.6	363.6	257.0	150.4	90.9	82.6	81.0
77.5°	948.7	894.2	767.7	571.1	381.8	270.2	191.7	119.8	86.8	81.0	80.2
80°	738.0	692.5	613.2	427.3	273.5	203.3	151.2	105.8	84.3	80.2	79.3
82.5°	526.4	510.7	443.8	332.2	228.1	174.4	136.4	101.6	83.5	79.3	78.5
85°	439.7	417.3	367.8	288.4	209.9	166.1	130.6	100.0	83.5	79.3	78.5
87.5°	424.8	404.9	359.5	275.2	197.5	156.2	124.8	96.7	81.8	77.7	77.7
90°	375.2	355.4	320.7	247.9	181.8	145.5	116.5	91.7	78.5	74.4	74.4
92.5°	332.2	320.7	287.6	227.3	174.4	139.7	112.4	89.3	76.9	73.6	72.7
95°	281.0	271.1	245.4	205.0	163.6	133.1	109.1	86.8	75.2	71.9	71.9
97.5°	233.1	224.8	205.0	173.5	141.3	118.2	98.3	81.8	72.7	70.2	70.2
100°	205.8	199.2	181.8	156.2	130.6	110.7	95.0	81.0	71.9	68.6	68.6
102.5°	195.0	188.4	171.1	147.9	124.0	105.8	92.6	79.3	71.1	67.8	66.9
105°	186.8	180.2	164.5	140.5	117.4	100.8	87.6	77.7	69.4	66.9	66.1
107.5°	178.5	171.1	156.2	132.2	111.6	95.9	84.3	75.2	68.6	66.1	66.1
110°	169.4	162.8	148.8	125.6	107.4	92.6	82.6	74.4	68.6	66.1	66.1

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

Scaled Data Report

REPORT NUMBER: P1045753
CATALOG NUMBER: FFX-CLB-70-730-U-FR-T5-UPLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	159.5	152.9	139.7	119.0	103.3	90.1	81.0	73.6	68.6	66.1	66.1
115°	147.9	142.1	129.7	112.4	98.3	86.8	78.5	71.9	66.9	65.3	65.3
117.5°	144.6	138.0	125.6	109.9	96.7	84.3	76.9	70.2	66.1	64.5	64.5
120°	152.1	143.0	129.7	114.9	96.7	82.6	75.2	69.4	65.3	63.6	63.6
122.5°	162.0	154.5	139.7	112.4	93.4	81.0	73.6	68.6	64.5	63.6	63.6
125°	152.9	147.9	133.9	104.1	90.1	79.3	72.7	68.6	65.3	63.6	63.6
127.5°	133.9	128.9	118.2	99.2	86.8	77.7	71.9	68.6	66.1	63.6	63.6
130°	126.4	119.8	109.9	95.0	83.5	75.2	71.1	68.6	66.1	62.8	62.0
132.5°	129.7	124.0	108.3	89.3	78.5	71.9	68.6	66.9	62.0	58.7	57.8
135°	122.3	116.5	100.8	85.1	76.0	71.1	67.8	62.8	57.8	53.7	53.7
137.5°	109.1	102.5	93.4	81.8	75.2	72.7	68.6	62.0	55.4	52.1	52.1
140°	108.3	100.8	92.6	81.0	73.6	66.9	62.0	55.4	50.4	48.8	47.9
142.5°	109.9	105.0	93.4	80.2	70.2	62.0	56.2	51.2	47.9	45.5	45.5
145°	127.3	119.8	105.0	87.6	76.0	66.1	57.8	51.2	46.3	42.1	41.3
147.5°	131.4	124.0	110.7	95.9	81.0	68.6	57.0	48.8	42.1	38.8	38.0
150°	109.9	105.0	97.5	85.9	72.7	60.3	50.4	43.0	38.8	37.2	36.4
152.5°	83.5	81.8	76.9	68.6	59.5	51.2	44.6	40.5	38.0	37.2	36.4
155°	71.1	70.2	65.3	58.7	51.2	45.5	41.3	38.8	37.2	37.2	36.4
157.5°	66.1	64.5	60.3	53.7	47.1	43.8	39.7	38.0	37.2	37.2	37.2
160°	55.4	53.7	50.4	47.9	43.8	41.3	38.8	38.0	37.2	37.2	36.4
162.5°	49.6	47.9	46.3	43.8	43.0	42.1	41.3	39.7	38.8	38.0	38.0
165°	47.1	46.3	43.8	43.0	43.0	43.8	43.8	42.1	40.5	38.8	38.8
167.5°	46.3	45.5	43.8	43.0	44.6	45.5	46.3	44.6	43.0	40.5	39.7
170°	46.3	46.3	45.5	44.6	45.5	46.3	47.1	47.1	46.3	44.6	44.6
172.5°	46.3	47.1	46.3	46.3	46.3	46.3	46.3	47.9	47.9	47.1	47.1
175°	49.6	49.6	47.1	46.3	47.1	47.9	48.8	47.9	47.9	48.8	48.8
177.5°	45.5	47.1	50.4	51.2	52.9	52.9	51.2	50.4	47.9	47.1	47.1
180°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3

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: SP1-2501-332-4

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-730-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-730-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

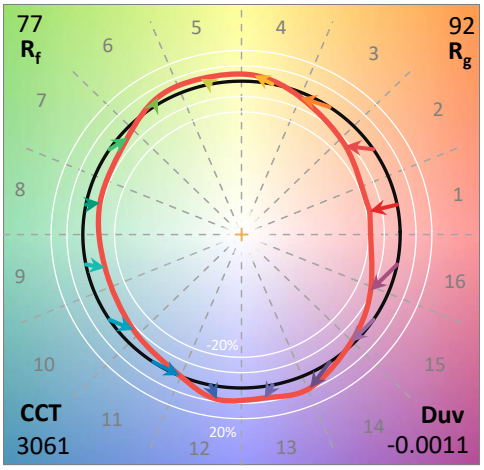
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-4
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-100-730-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3061
CIE u':	0.2489
CIE v':	0.5187
Duv:	-0.0011
CIE x:	0.4312
CIE y:	0.3995
CIE z:	0.1693
Peak Wavelength (nm):	592
Dominant Wavelength (nm):	582
Purity:	49.32381
Rf:	76.8
Rg:	92.2

CRI (Ra):	71.7
R1:	67.8
R2:	85.0
R3:	92.9
R4:	66.0
R5:	68.5
R6:	80.2
R7:	74.5
R8:	39.0
R9:	-40.3
R10:	67.2
R11:	61.6
R12:	59.9
R13:	71.4
R14:	96.3
R15:	58.8



Test Conditions

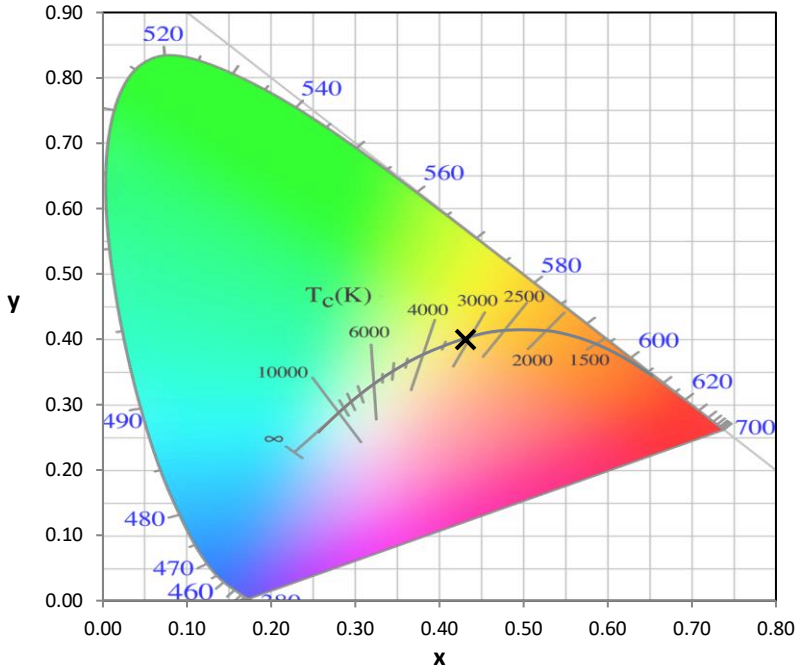
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

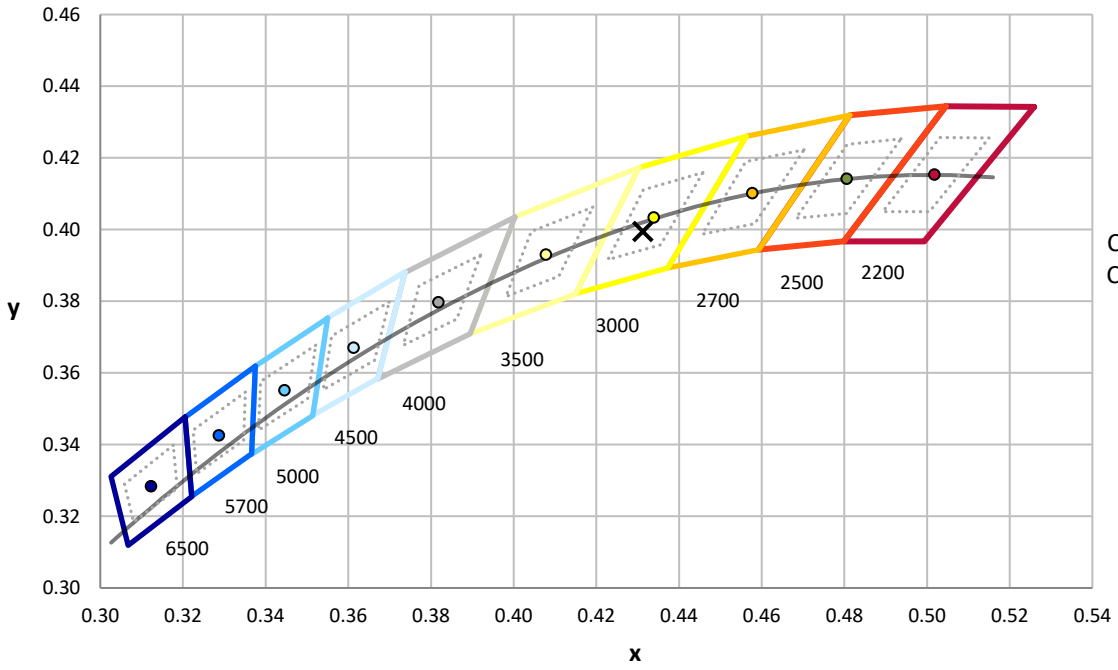
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-4

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

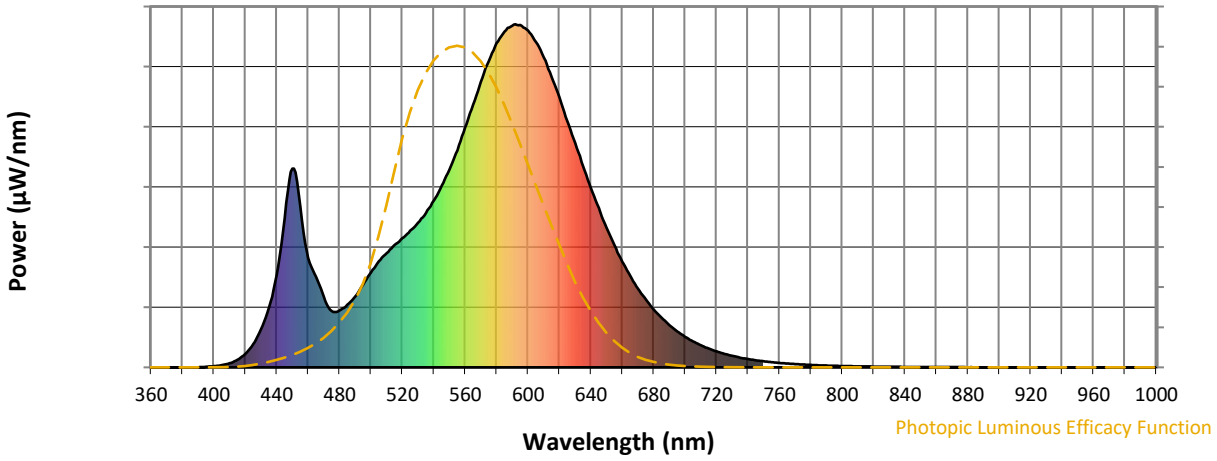


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

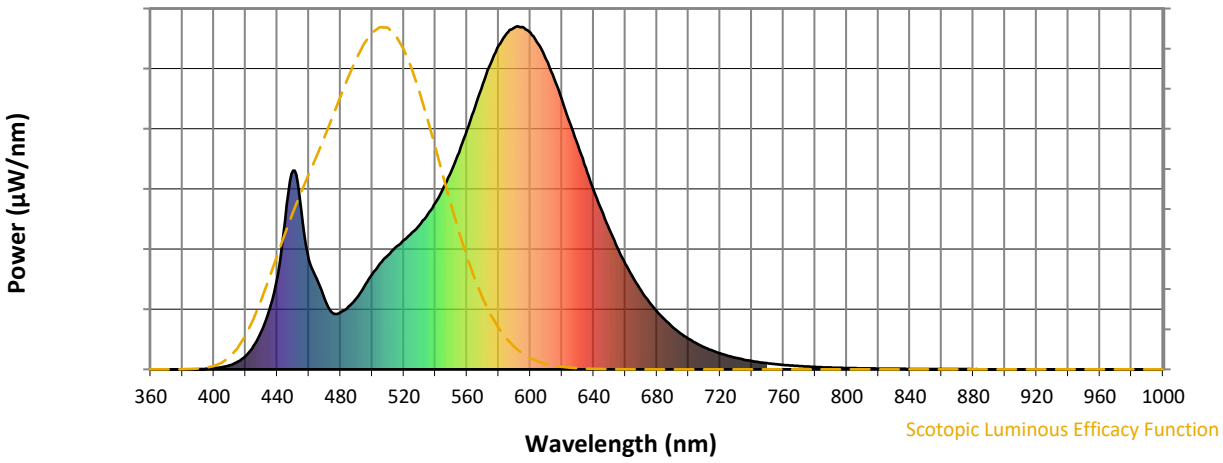


Photopic Lumens: NR

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Scotopic Flux vs. Wavelength

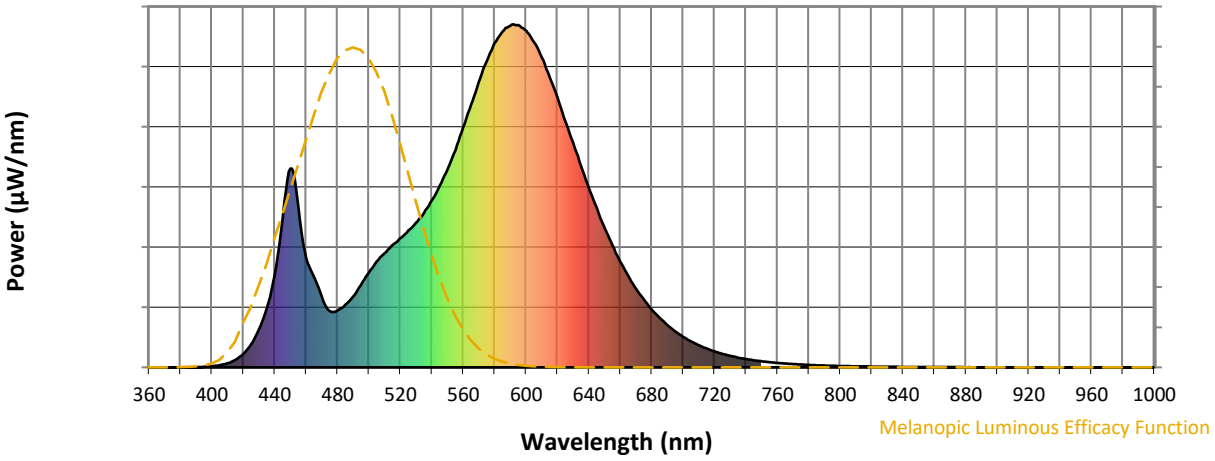


Scotopic Lumens: NR **S/P: 1.29**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.47**

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	207	NR	620	786	NR	750	18	NR	880	0	NR
365	0	NR	495	241	NR	625	718	NR	755	15	NR	885	0	NR
370	0	NR	500	277	NR	630	654	NR	760	13	NR	890	0	NR
375	0	NR	505	309	NR	635	588	NR	765	11	NR	895	0	NR
380	0	NR	510	333	NR	640	523	NR	770	10	NR	900	0	NR
385	0	NR	515	356	NR	645	465	NR	775	8	NR	905	0	NR
390	0	NR	520	376	NR	650	407	NR	780	7	NR	910	0	NR
395	2	NR	525	398	NR	655	356	NR	785	6	NR	915	0	NR
400	4	NR	530	422	NR	660	308	NR	790	5	NR	920	0	NR
405	6	NR	535	450	NR	665	267	NR	795	5	NR	925	0	NR
410	12	NR	540	486	NR	670	229	NR	800	4	NR	930	0	NR
415	22	NR	545	530	NR	675	197	NR	805	3	NR	935	0	NR
420	39	NR	550	577	NR	680	169	NR	810	3	NR	940	0	NR
425	68	NR	555	633	NR	685	145	NR	815	3	NR	945	0	NR
430	111	NR	560	700	NR	690	123	NR	820	2	NR	950	0	NR
435	175	NR	565	766	NR	695	105	NR	825	2	NR	955	0	NR
440	269	NR	570	832	NR	700	89	NR	830	2	NR	960	0	NR
445	434	NR	575	893	NR	705	76	NR	835	2	NR	965	0	NR
450	579	NR	580	945	NR	710	64	NR	840	1	NR	970	0	NR
455	468	NR	585	979	NR	715	55	NR	845	1	NR	975	0	NR
460	320	NR	590	996	NR	720	47	NR	850	1	NR	980	0	NR
465	264	NR	595	998	NR	725	40	NR	855	1	NR	985	0	NR
470	204	NR	600	981	NR	730	33	NR	860	1	NR	990	0	NR
475	164	NR	605	949	NR	735	28	NR	865	1	NR	995	0	NR
480	166	NR	610	903	NR	740	24	NR	870	1	NR	1000	0	NR
485	183	NR	615	847	NR	745	21	NR	875	1	NR			

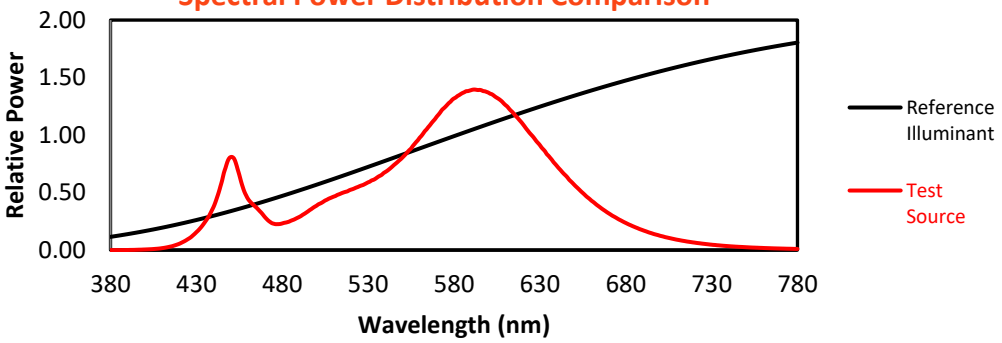
REPORT NUMBER: SP1-2501-332-4

TM-30-18

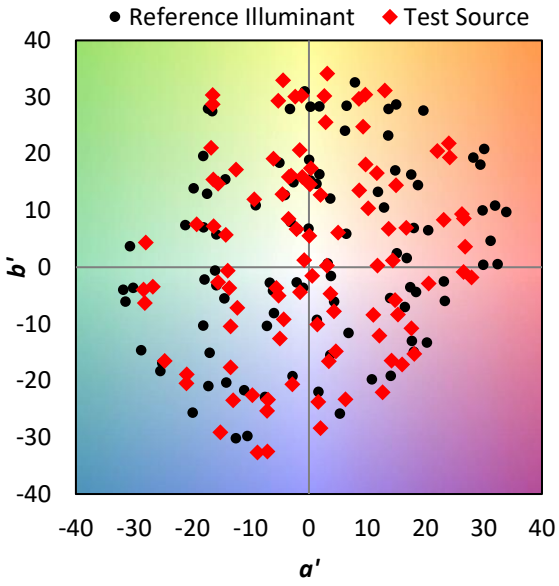
Summary

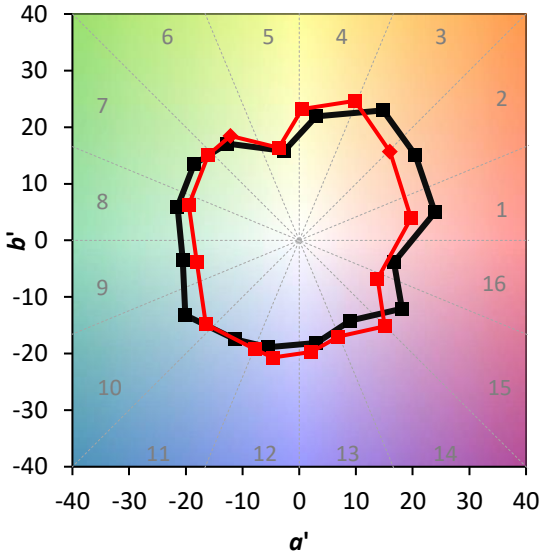
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

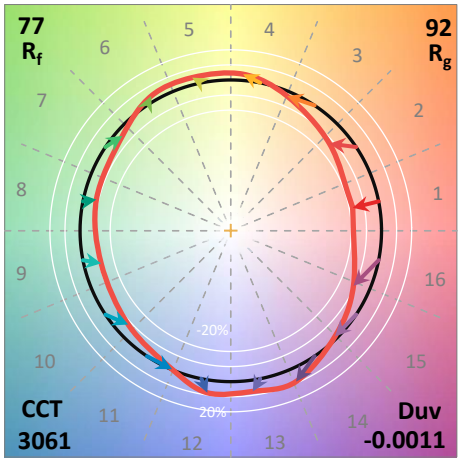
Spectral Power Distribution Comparison

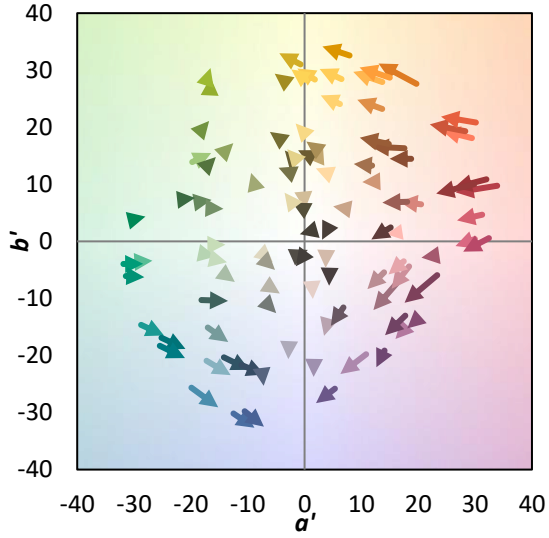


Color Vector Graphics







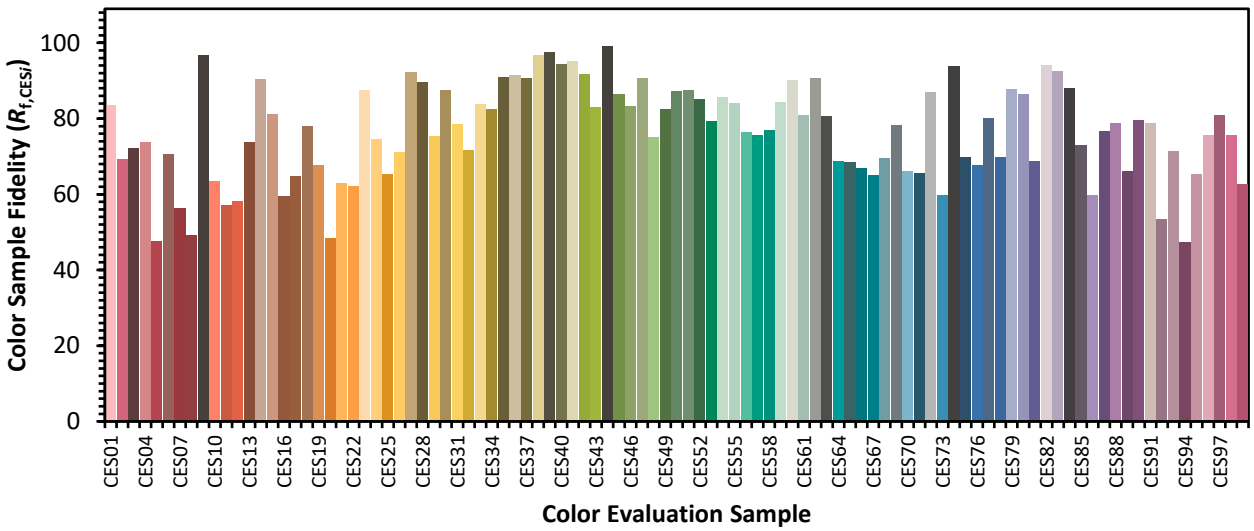


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

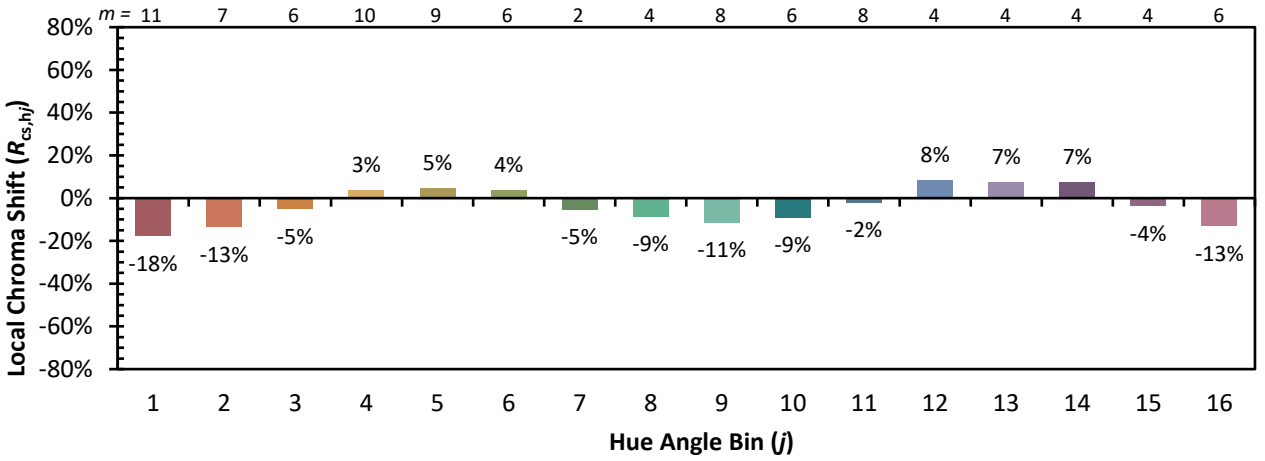
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 40	CES33 = 84	CES58 = 77	CES83 = 92
CES09 = 29	CES34 = 83	CES59 = 84	CES84 = 88
CES10 = 76	CES35 = 91	CES60 = 90	CES85 = 73
CES11 = 59	CES36 = 92	CES61 = 81	CES86 = 60
CES12 = 65	CES37 = 91	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 97	CES63 = 81	CES88 = 79
CES14 = 74	CES39 = 98	CES64 = 69	CES89 = 66
CES15 = 71	CES40 = 94	CES65 = 69	CES90 = 80
CES16 = 47	CES41 = 95	CES66 = 67	CES91 = 79
CES17 = 50	CES42 = 92	CES67 = 65	CES92 = 53
CES18 = 56	CES43 = 83	CES68 = 70	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 47
CES20 = 66	CES45 = 87	CES70 = 66	CES95 = 65
CES21 = 87	CES46 = 83	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 91	CES72 = 87	CES97 = 81
CES23 = 92	CES48 = 75	CES73 = 60	CES98 = 76
CES24 = 91	CES49 = 83	CES74 = 94	CES99 = 63
CES25 = 73	CES50 = 87	CES75 = 70	

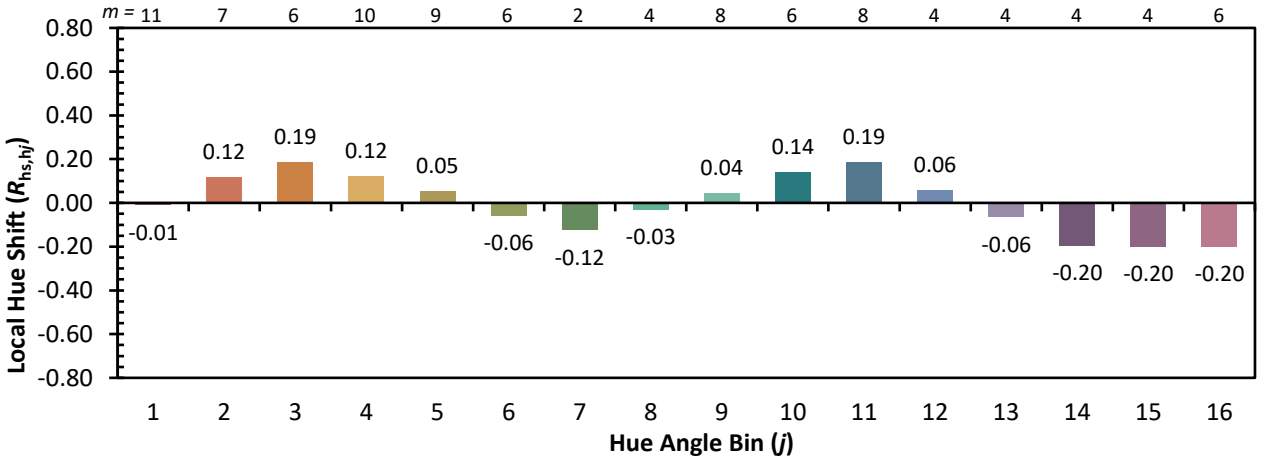


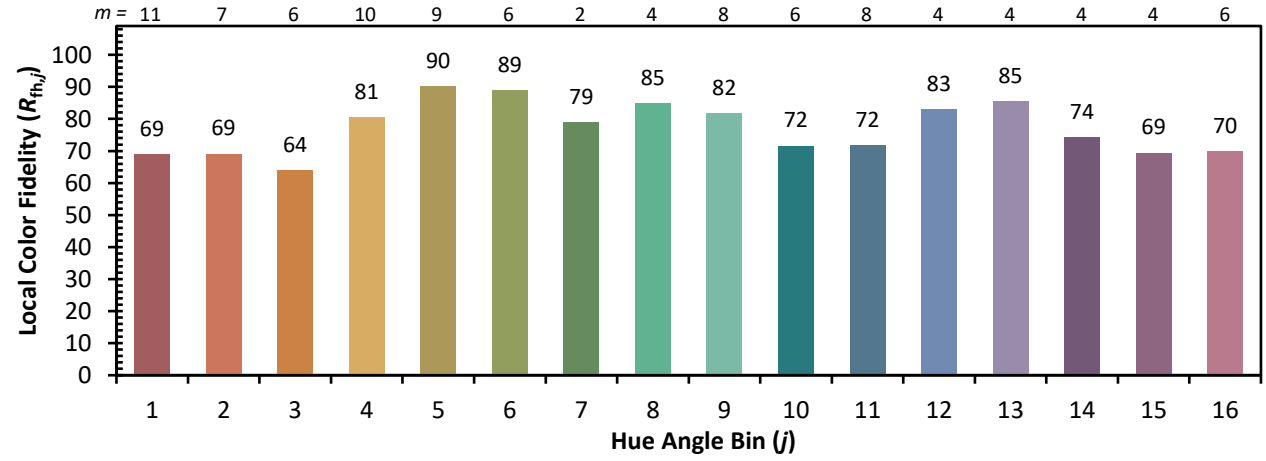
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Color Rendition by Hue-Angle Bin



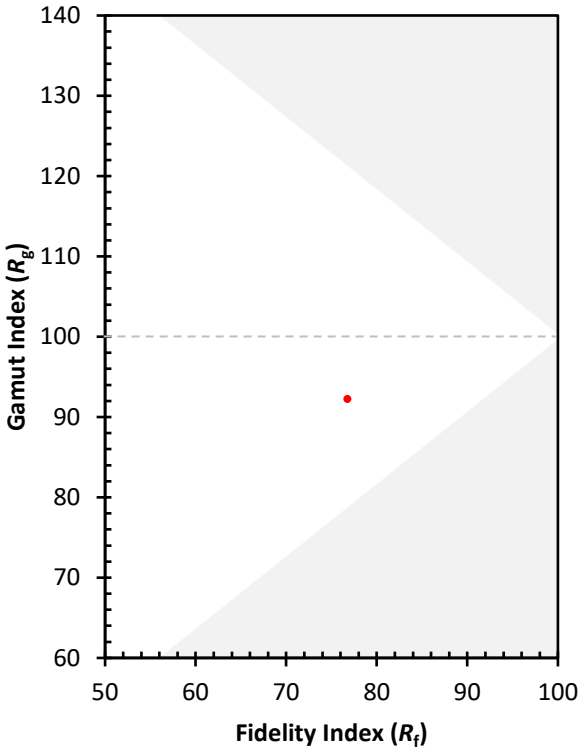


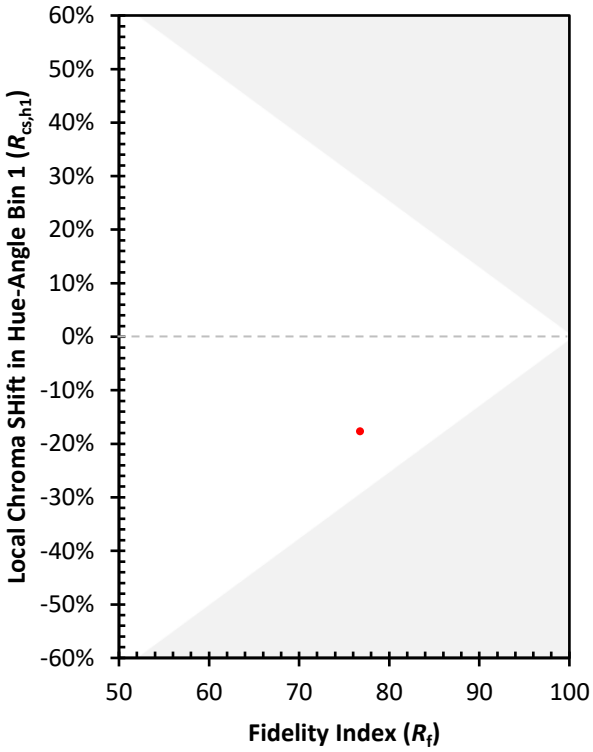


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Measure Comparisons





(END OF REPORT)