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: P1045825

Luminaire Tested: **FFX-CLB-70-722-U-VM8-T5-HSS**

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:	P1045825
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-722-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6359.8 lumens
Efficiency:	N/A
Efficacy:	89.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G4

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

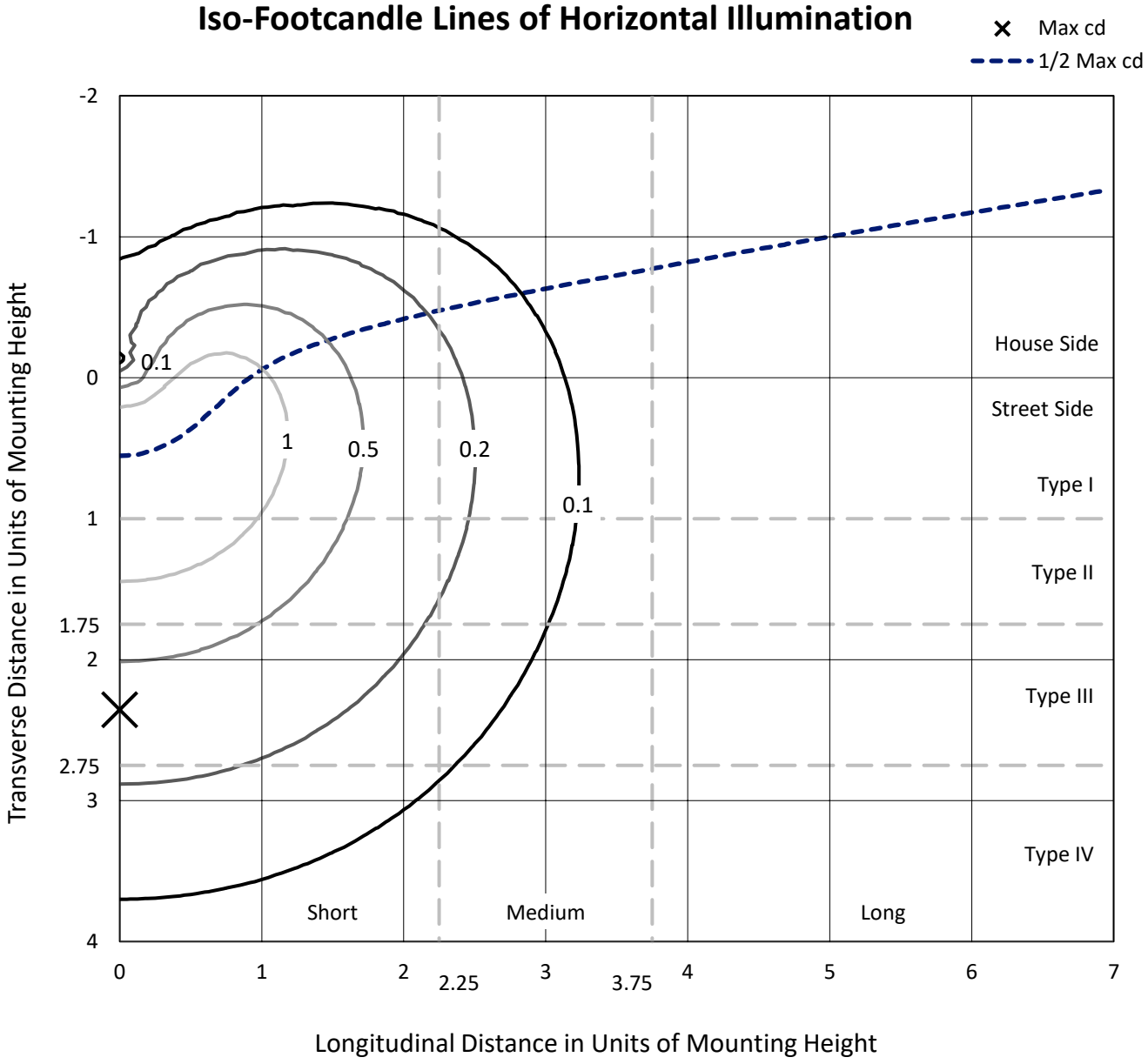


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Iso-Footcandle Lines of Horizontal Illumination



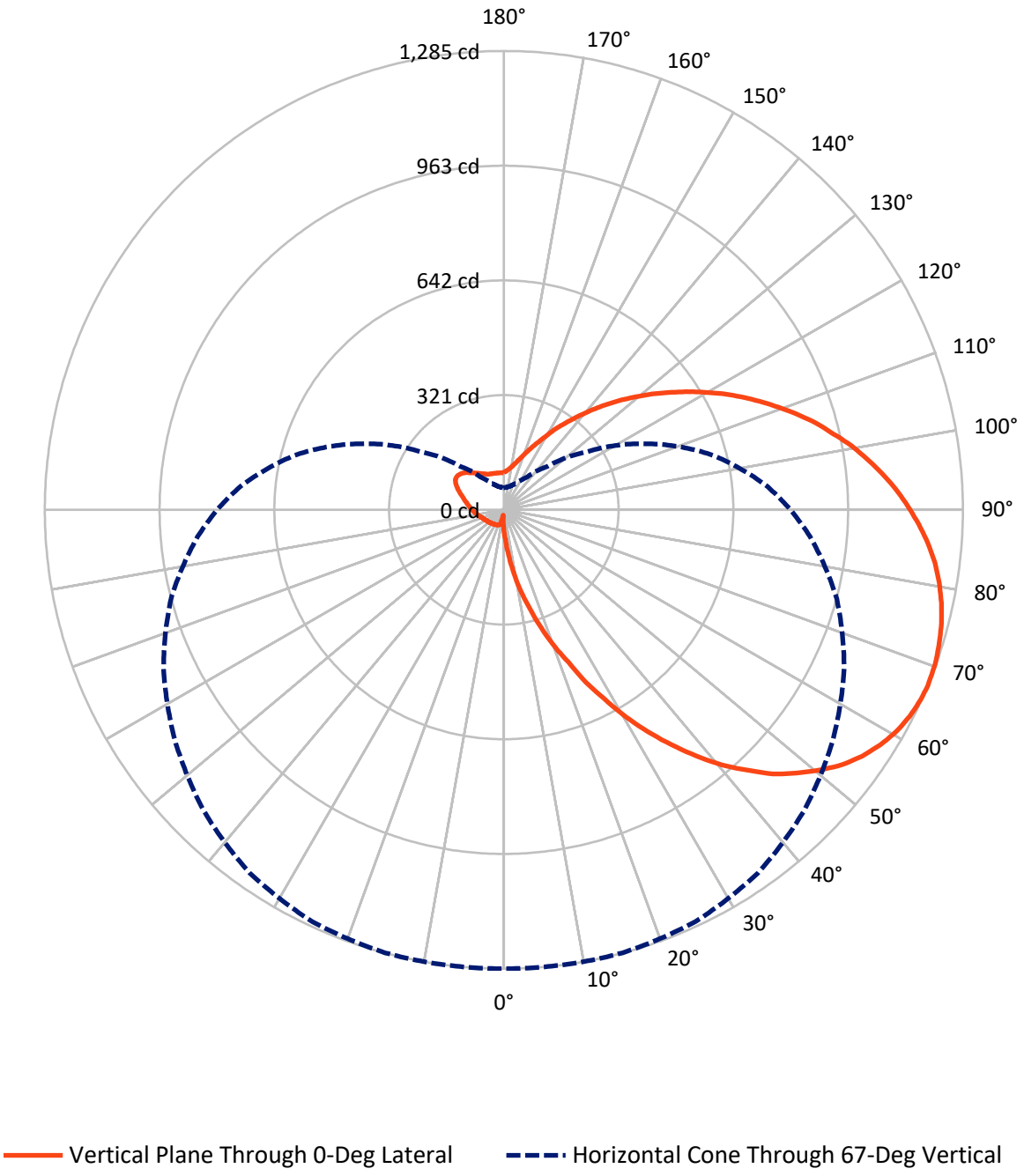
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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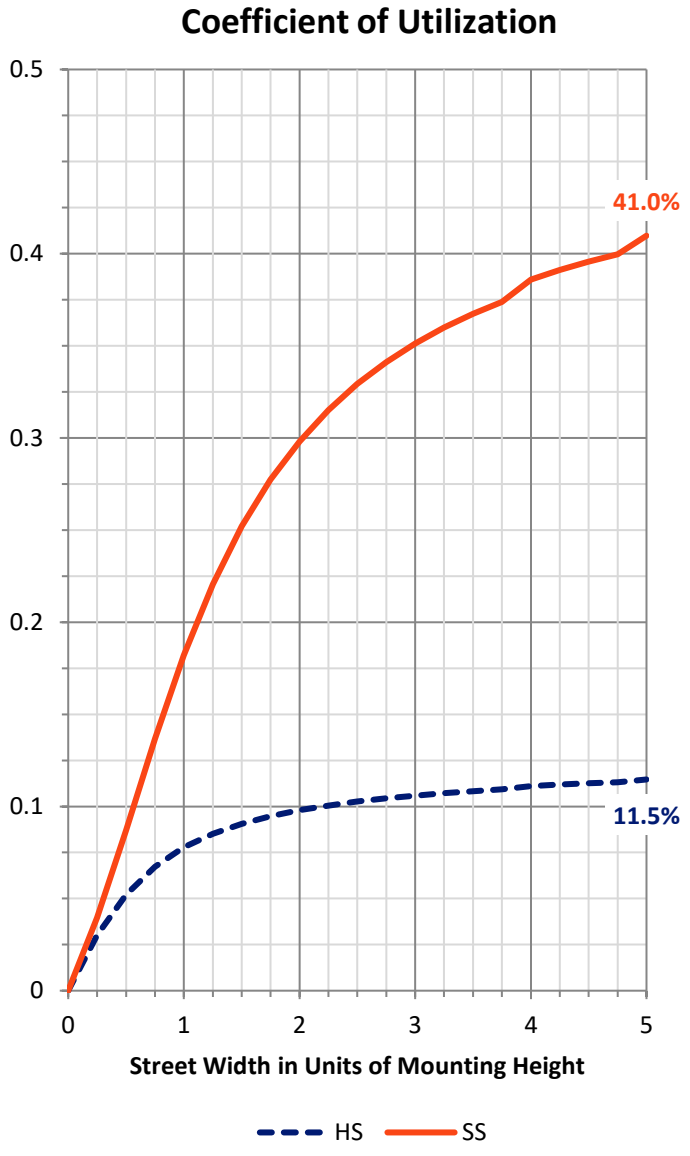
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.5	750.3	1537.9
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	2969.6	1852.3	4821.9
	% Fixture	46.7	29.1	75.8
Total	Lumens	3757.1	2602.7	6359.8
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.1
10°-20°	52.9	0.8
20°-30°	147.6	2.3
30°-40°	295.3	4.6
40°-50°	464.0	7.3
50°-60°	610.1	9.6
60°-70°	704.4	11.1
70°-80°	743.4	11.7
80°-90°	731.1	11.5
90°-100°	671.0	10.6
100°-110°	580.4	9.1
110°-120°	476.3	7.5
120°-130°	363.2	5.7
130°-140°	244.6	3.8
140°-150°	145.0	2.3
150°-160°	76.2	1.2
160°-170°	35.5	0.6
170°-180°	10.3	0.2
0°-90°	3757.1	59.1
0°-180°	6359.8	100.0



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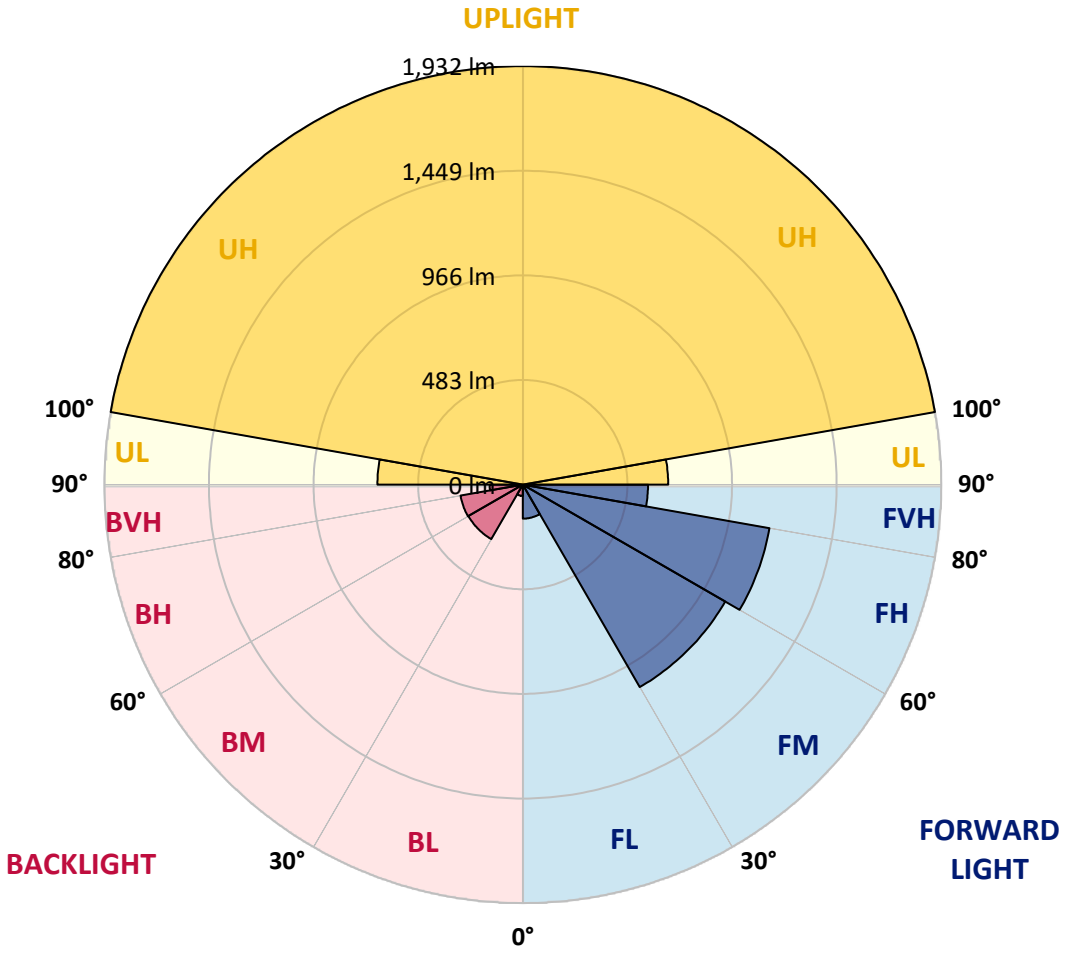
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	156.9	2.5			
FM	(30°-60°)	1079.0	17.0			
FH	(60°-80°)	1155.9	18.2			G1/1800
FVH	(80°-90°)	577.8	9.1			G4/750
BL	(0°-30°)	51.9	0.8	B0/110		
BM	(30°-60°)	290.4	4.6	B1/1000		
BH	(60°-80°)	292.0	4.6	B1/500		G1/500
BVH	(80°-90°)	153.3	2.4			G2/225
UL	(90°-100°)	671.0	10.6		U4/1000	
UH	(100°-180°)	1931.6	30.4		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
2.5°	82.1	83.5	83.5	82.8	82.1	80.7	79.3	76.5	71.0	66.8	62.6
5°	119.0	119.0	119.7	119.0	116.2	113.4	107.2	102.3	93.2	86.3	78.6
7.5°	161.4	163.5	162.8	160.7	155.9	149.6	141.9	132.9	123.9	113.4	101.6
10°	208.7	208.1	208.1	205.3	199.7	191.4	183.0	172.6	159.3	146.1	130.8
12.5°	253.3	255.4	254.0	250.5	243.5	237.3	226.8	215.0	199.7	185.8	164.9
15°	301.3	302.7	302.7	300.6	294.3	285.3	273.5	262.3	242.1	222.7	202.5
17.5°	356.3	354.2	351.4	351.4	343.7	336.1	324.3	308.9	286.7	265.1	238.0
20°	411.2	410.5	407.1	405.0	400.1	389.0	373.7	356.3	334.0	309.6	277.6
22.5°	462.7	469.7	469.0	465.5	459.2	448.1	431.4	410.5	387.6	357.0	320.1
25°	535.8	531.6	532.3	528.8	523.3	510.0	493.3	469.0	441.2	407.1	365.3
27.5°	599.1	597.7	597.7	595.6	588.0	574.1	554.6	531.6	499.6	459.2	412.6
30°	672.2	668.7	667.3	665.2	657.6	642.2	622.1	593.5	558.7	517.7	462.7
32.5°	741.1	738.3	733.4	732.7	727.1	711.1	688.2	658.9	619.3	571.3	510.7
35°	807.2	808.5	806.5	803.0	795.3	780.0	757.8	722.3	683.3	627.6	562.2
37.5°	874.0	873.3	874.6	871.9	860.0	845.4	819.0	781.4	736.9	676.3	607.5
40°	939.4	935.9	935.2	932.4	924.1	909.4	879.5	841.2	791.1	728.5	650.6
42.5°	995.7	997.1	995.7	992.9	981.8	965.1	933.8	891.3	838.5	771.0	691.0
45°	1054.9	1052.8	1052.1	1052.1	1037.5	1020.1	986.0	942.1	883.0	810.6	725.7
47.5°	1101.5	1104.3	1102.9	1099.4	1089.7	1068.1	1031.9	983.9	922.0	847.5	757.1
50°	1145.3	1148.8	1149.5	1146.0	1134.2	1110.5	1073.0	1019.4	956.8	878.1	784.2
52.5°	1185.7	1185.0	1187.1	1185.0	1173.9	1149.5	1106.4	1052.1	984.6	903.9	805.1
55°	1217.0	1217.0	1218.4	1215.6	1205.2	1178.0	1133.5	1075.7	1006.9	924.1	823.2
57.5°	1242.0	1243.4	1242.7	1242.0	1230.2	1201.7	1154.4	1094.5	1024.9	938.7	836.4
60°	1261.5	1262.2	1262.2	1260.8	1249.0	1219.1	1171.1	1109.1	1036.8	951.2	846.8
62.5°	1274.1	1274.7	1274.7	1273.4	1261.5	1230.9	1182.2	1118.2	1045.1	958.8	853.8
65°	1281.7	1282.4	1282.4	1281.0	1269.2	1237.9	1187.8	1123.1	1049.3	963.0	857.9
67°	1284.5	1284.5	1284.5	1283.8	1271.3	1240.7	1189.2	1123.8	1050.7	964.4	860.0
67.5°	1283.8	1283.8	1284.5	1283.1	1271.3	1240.0	1188.5	1123.8	1050.0	964.4	860.0
70°	1281.7	1281.7	1281.7	1280.3	1268.5	1237.2	1185.7	1120.3	1047.9	963.0	859.3
72.5°	1274.1	1274.7	1274.7	1273.4	1261.5	1230.9	1179.4	1114.0	1042.3	958.8	857.3
75°	1265.0	1265.0	1265.0	1263.6	1251.8	1221.2	1170.4	1105.7	1035.4	953.3	853.1
77.5°	1251.8	1251.8	1251.8	1250.4	1238.6	1208.6	1158.5	1095.2	1026.3	945.6	848.2
80°	1235.1	1235.8	1235.1	1233.7	1221.9	1191.9	1143.9	1082.0	1014.5	936.6	841.2
82.5°	1215.6	1216.3	1215.6	1212.8	1201.7	1173.2	1125.1	1064.6	1000.6	924.7	832.9
85°	1190.6	1189.9	1190.6	1186.4	1176.6	1148.1	1104.3	1045.1	983.2	910.8	821.1
87.5°	1162.0	1162.7	1161.3	1159.2	1147.4	1119.6	1077.8	1022.9	963.0	894.1	807.2
90°	1130.7	1130.7	1130.0	1127.2	1114.7	1089.7	1050.0	997.1	941.4	875.3	792.5
92.5°	1098.7	1098.0	1095.9	1094.5	1083.4	1057.6	1019.4	972.1	919.9	856.6	777.2
95°	1063.2	1063.2	1061.8	1059.0	1046.5	1025.6	988.8	944.2	894.8	836.4	761.2
97.5°	1025.6	1024.9	1024.3	1020.1	1008.9	988.1	958.1	915.0	869.8	814.8	743.1
100°	988.8	986.7	985.3	981.1	971.4	951.2	922.7	885.1	841.2	791.1	723.7
102.5°	945.6	945.6	944.9	940.8	928.2	911.5	885.8	852.4	814.8	766.8	702.8
105°	907.4	903.9	902.5	898.3	888.6	870.5	848.9	819.7	784.9	740.4	681.9
107.5°	864.2	861.4	860.7	854.5	846.8	830.1	812.0	784.9	755.7	716.0	660.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*820.4*	819.0	818.3	812.0	802.3	791.1	772.4	750.8	725.0	688.9	640.2
112.5°	*777.2*	775.8	775.8	771.0	761.9	748.0	734.8	716.0	693.0	661.7	616.5
115°	*734.8*	732.7	732.0	726.4	717.4	707.0	693.7	680.5	661.0	634.6	593.5
117.5°	*692.3*	689.6	690.3	685.4	678.4	668.0	655.5	646.4	629.7	605.4	570.6
120°	*648.5*	649.2	649.2	642.9	636.7	628.3	617.9	608.8	597.7	576.1	544.1
122.5°	*606.8*	608.1	608.1	604.0	596.3	588.7	581.7	573.4	563.6	546.9	518.4
125°	*565.0*	567.8	566.4	562.9	556.7	548.3	543.4	536.5	528.8	514.9	489.9
127.5°	*526.7*	526.7	523.3	524.0	517.7	510.7	506.6	501.7	494.0	480.8	460.6
130°	*487.1*	487.8	488.5	484.3	478.7	473.2	469.0	466.9	460.6	449.5	429.3
132.5°	*450.9*	450.9	449.5	446.7	441.8	437.7	437.7	431.4	426.5	416.1	398.7
135°	*415.4*	414.7	414.7	411.9	408.4	406.4	401.5	398.7	393.8	384.1	370.9
137.5°	*380.6*	382.0	380.6	378.5	375.0	372.3	368.8	368.1	361.1	354.2	339.6
140°	*347.2*	349.3	347.2	346.5	343.7	340.3	338.2	335.4	333.3	324.3	311.7
142.5°	*315.9*	317.3	315.9	315.2	313.1	310.3	308.9	306.9	302.0	296.4	286.0
145°	*288.8*	288.1	288.1	287.4	284.6	282.5	280.4	279.0	276.2	270.7	258.8
147.5°	*262.3*	260.2	261.6	260.2	258.2	256.8	256.1	253.3	250.5	244.9	236.6
150°	*235.2*	236.6	235.9	235.2	233.1	233.1	231.0	228.9	226.8	220.6	215.0
152.5°	*212.9*	212.9	213.6	212.2	211.5	209.4	208.1	207.4	204.6	200.4	194.1
155°	*194.1*	193.4	193.4	193.4	192.0	190.0	189.3	187.9	186.5	181.6	176.0
157.5°	*176.0*	176.0	176.0	175.3	175.3	173.3	172.6	170.5	168.4	165.6	160.7
160°	*160.7*	160.7	160.0	160.0	159.3	158.6	157.3	155.2	153.8	151.7	147.5
162.5°	*148.2*	147.5	147.5	146.8	146.1	144.7	144.0	143.3	141.3	139.2	135.7
165°	*136.4*	136.4	136.4	135.7	135.0	134.3	133.6	132.2	130.8	129.4	127.3
167.5°	*127.3*	127.3	127.3	126.6	126.6	125.9	125.2	123.9	122.5	121.1	119.7
170°	*120.4*	120.4	120.4	119.7	119.0	118.3	117.6	116.9	116.2	114.8	114.1
172.5°	*114.8*	114.8	114.8	114.8	113.4	112.7	112.0	112.0	111.3	110.6	109.9
175°	*109.9*	109.9	109.9	109.9	109.2	108.5	107.9	107.9	107.2	106.5	105.8
177.5°	*107.2*	107.2	107.2	106.5	106.5	105.8	105.1	105.1	104.4	104.4	103.7
180°	*103.7*	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
2.5°	59.8	57.1	52.2	48.0	44.5	41.1	39.0	36.9	36.9	37.6	36.2
5°	72.4	67.5	58.4	48.7	40.4	33.4	27.8	23.0	18.8	16.7	16.7
7.5°	96.0	90.5	77.9	65.4	53.6	42.4	33.4	25.7	19.5	16.0	15.3
10°	123.2	116.9	99.5	84.2	69.6	55.7	43.8	33.4	26.4	23.0	22.3
12.5°	154.5	146.1	125.2	105.8	87.0	69.6	55.0	43.1	36.2	32.7	32.0
15°	190.7	177.4	153.8	129.4	105.1	83.5	66.1	52.9	45.2	40.4	40.4
17.5°	223.4	209.4	180.9	149.6	121.8	96.7	75.8	59.8	49.4	44.5	43.8
20°	260.9	242.1	208.1	171.9	137.8	107.2	82.1	64.0	51.5	45.2	45.2
22.5°	299.2	279.7	238.0	194.1	153.1	116.9	88.4	66.8	52.9	45.9	45.2
25°	344.4	318.0	267.9	218.5	170.5	127.3	93.9	69.6	54.3	47.3	45.9
27.5°	388.3	361.1	302.7	242.8	186.5	137.8	98.8	72.4	55.7	48.0	47.3
30°	434.2	400.8	334.7	267.9	203.2	146.8	103.7	74.5	56.4	48.7	47.3
32.5°	480.1	443.2	370.2	292.2	219.2	155.2	107.9	75.8	57.8	49.4	48.0
35°	526.7	487.1	404.3	316.6	233.8	162.8	110.6	77.2	58.4	49.4	48.7
37.5°	567.1	525.3	436.3	338.9	246.3	169.1	113.4	78.6	58.4	50.1	49.4
40°	607.5	562.2	464.1	357.7	257.5	174.0	115.5	79.3	59.1	50.8	50.1
42.5°	643.6	593.5	488.5	374.4	266.5	177.4	116.2	79.3	59.8	51.5	50.8
45°	676.3	625.5	511.4	390.4	274.2	179.5	116.9	80.0	60.5	52.2	51.5
47.5°	706.3	652.0	532.3	403.6	280.4	181.6	116.9	80.0	61.2	53.6	52.2
50°	731.3	674.3	549.7	414.7	284.6	182.3	116.2	80.0	61.9	54.3	53.6
52.5°	750.8	693.0	564.3	422.4	287.4	181.6	115.5	80.0	62.6	55.0	54.3
55°	767.5	708.3	574.7	428.6	288.1	180.2	114.8	80.0	63.3	56.4	55.7
57.5°	780.0	719.5	583.8	433.5	288.8	178.8	113.4	80.0	64.0	57.1	56.4
60°	789.8	729.2	590.8	436.3	288.1	176.7	112.7	80.0	64.7	58.4	57.8
62.5°	796.7	734.8	594.9	437.0	286.0	174.7	111.3	80.0	65.4	59.8	59.1
65°	800.9	739.0	598.4	437.7	283.9	172.6	110.6	80.7	66.8	61.9	61.2
67°	*802.3*	*741.1*	*599.1*	*437.7*	*282.5*	*171.2*	*110.6*	*81.4*	*68.2*	*62.6*	*61.9*
67.5°	803.0	741.1	599.1	437.0	281.8	171.2	110.6	81.4	68.2	63.3	62.6
70°	802.3	741.1	599.1	435.6	279.7	169.8	109.9	82.8	70.3	65.4	64.7
72.5°	800.9	739.7	597.7	433.5	276.9	168.4	110.6	84.2	72.4	67.5	66.8
75°	797.4	736.9	594.9	430.7	274.8	167.0	111.3	85.6	74.5	70.3	69.6
77.5°	793.9	733.4	592.8	427.9	272.8	167.0	112.0	87.7	77.2	73.1	72.4
80°	787.7	728.5	588.7	425.1	270.7	166.3	113.4	90.5	80.0	75.8	75.1
82.5°	780.0	721.6	583.1	421.0	268.6	166.3	115.5	92.5	82.8	78.6	77.9
85°	769.6	712.5	576.1	415.4	266.5	167.0	116.9	95.3	85.6	82.1	81.4
87.5°	757.8	701.4	567.8	410.5	264.4	167.0	119.0	98.1	88.4	84.9	84.9
90°	743.8	689.6	558.0	405.0	262.3	168.4	121.8	100.9	91.8	88.4	88.4
92.5°	731.3	677.0	550.4	399.4	260.9	169.8	124.6	104.4	95.3	91.8	91.8
95°	714.6	663.8	539.3	394.5	260.2	171.2	127.3	107.9	99.5	96.0	95.3
97.5°	698.6	649.2	529.5	389.0	259.5	174.0	130.8	112.0	103.0	99.5	99.5
100°	681.2	634.6	518.4	384.1	259.5	177.4	135.7	116.2	107.9	104.4	103.7
102.5°	664.5	618.6	507.3	379.2	260.9	180.9	140.6	121.1	112.7	109.2	108.5
105°	645.7	601.9	497.5	375.0	262.3	185.8	146.1	127.3	118.3	114.8	114.1
107.5°	626.9	586.6	486.4	371.6	265.1	192.0	153.1	133.6	124.6	120.4	119.7

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

Scaled Data Report

REPORT NUMBER: P1045825
CATALOG NUMBER: FFX-CLB-70-722-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	606.8	569.9	476.6	368.8	269.3	199.0	160.7	141.9	131.5	127.3	126.6
112.5°	588.0	553.2	466.2	366.7	273.5	207.4	169.8	149.6	139.9	134.3	133.6
115°	567.1	535.8	456.5	364.6	278.3	215.7	179.5	158.0	147.5	141.9	141.9
117.5°	546.9	517.7	445.3	362.5	283.2	224.8	188.6	167.0	155.2	149.6	148.9
120°	523.3	498.2	433.5	358.3	286.0	231.7	196.2	174.7	161.4	155.9	155.2
122.5°	499.6	476.6	418.2	352.1	286.7	235.9	201.8	180.9	167.0	160.7	160.0
125°	472.5	453.0	402.2	342.3	284.6	238.0	205.3	183.0	169.1	162.1	161.4
127.5°	446.0	427.2	383.4	330.5	279.0	235.9	204.6	183.0	169.1	161.4	160.7
130°	417.5	400.8	361.1	315.9	270.0	231.0	201.8	180.2	166.3	158.6	158.0
132.5°	388.3	374.4	339.6	299.9	258.8	223.4	195.5	175.3	161.4	154.5	153.8
135°	359.7	347.2	317.3	281.8	247.0	214.3	188.6	169.1	155.2	148.9	148.9
137.5°	332.6	320.8	294.3	264.4	233.1	203.9	180.2	161.4	149.6	143.3	141.9
140°	304.8	295.0	272.1	245.6	218.5	192.7	171.2	153.8	142.6	137.1	136.4
142.5°	279.0	270.7	251.2	229.6	204.6	182.3	162.1	147.5	137.1	131.5	130.8
145°	254.7	247.0	230.3	210.8	190.7	171.2	153.1	139.9	130.8	126.6	125.9
147.5°	230.3	225.4	211.5	195.5	176.7	159.3	144.7	133.6	125.2	121.8	121.1
150°	210.1	203.9	193.4	178.8	164.2	149.6	137.1	127.3	121.1	117.6	117.6
152.5°	190.0	186.5	176.0	164.9	152.4	140.6	129.4	121.8	116.9	114.1	114.1
155°	174.7	169.8	160.7	151.7	141.3	131.5	123.9	117.6	113.4	111.3	110.6
157.5°	158.6	155.9	148.9	140.6	132.9	125.2	119.0	114.1	110.6	109.2	108.5
160°	145.4	143.3	137.8	131.5	125.2	119.7	114.8	111.3	108.5	107.2	107.2
162.5°	134.3	132.9	128.0	123.9	119.0	114.8	111.3	108.5	107.2	106.5	106.5
165°	125.9	124.6	121.1	117.6	114.8	111.3	109.2	107.2	105.8	105.8	105.8
167.5°	119.0	117.6	115.5	113.4	111.3	108.5	107.2	105.8	105.8	105.1	105.1
170°	113.4	112.7	110.6	109.2	107.9	106.5	105.8	105.1	104.4	104.4	104.4
172.5°	109.2	108.5	107.2	106.5	105.1	104.4	104.4	104.4	104.4	104.4	104.4
175°	105.8	105.1	105.1	104.4	103.7	103.7	103.0	103.7	103.7	103.7	103.7
177.5°	103.7	103.7	103.0	103.0	103.0	103.0	103.0	103.7	103.7	104.4	104.4
180°	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7	103.7

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: SP1-2501-332-2

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

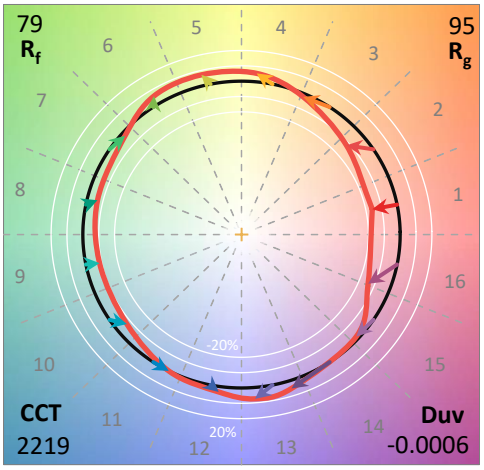
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-2
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-100-722-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2219
CIE u':	0.2889
CIE v':	0.5348
Duv:	-0.0006
CIE x:	0.5023
CIE y:	0.4133
CIE z:	0.0844
Peak Wavelength (nm):	606
Dominant Wavelength (nm):	587
Purity:	74.84521
Rf:	78.8
Rg:	94.5

CRI (Ra):	73.3
R1:	71.2
R2:	89.1
R3:	88.3
R4:	68.0
R5:	71.8
R6:	89.6
R7:	71.4
R8:	37.3
R9:	-25.6
R10:	78.7
R11:	66.6
R12:	77.1
R13:	75.0
R14:	93.9
R15:	61.0



Test Conditions

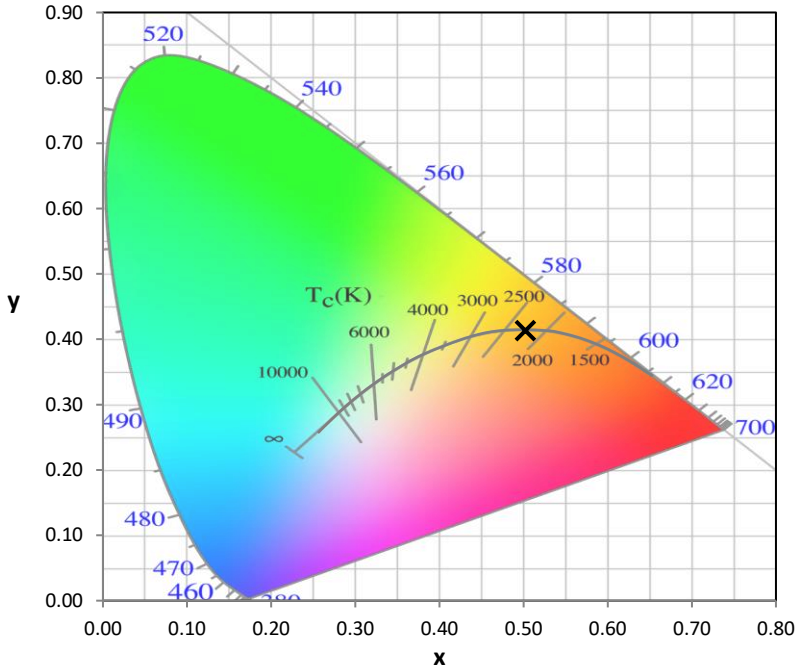
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

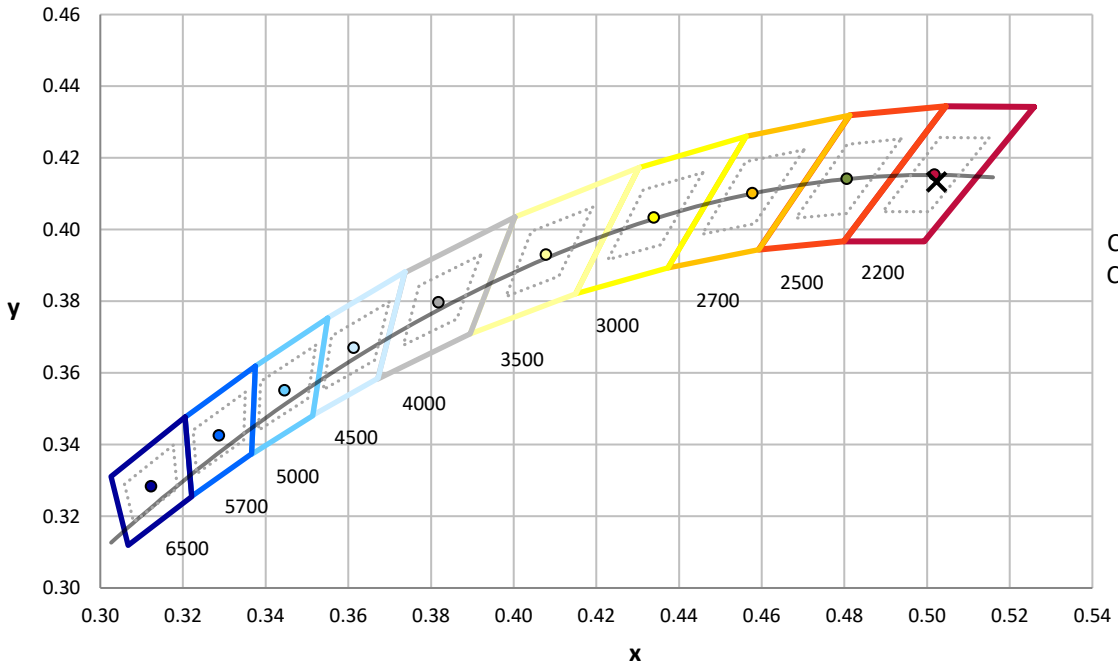
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-2

CIE 1931 Chromaticity Diagram



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

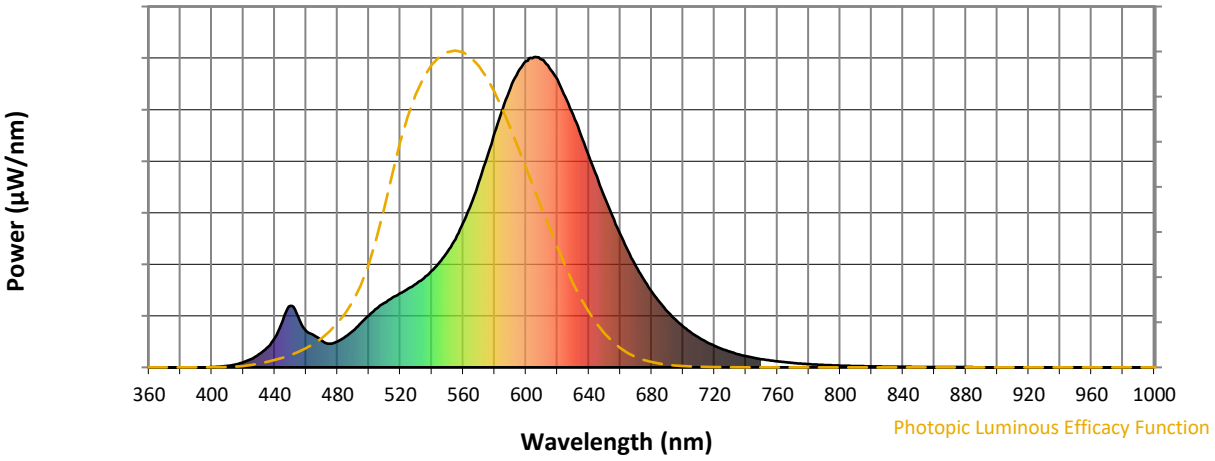


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

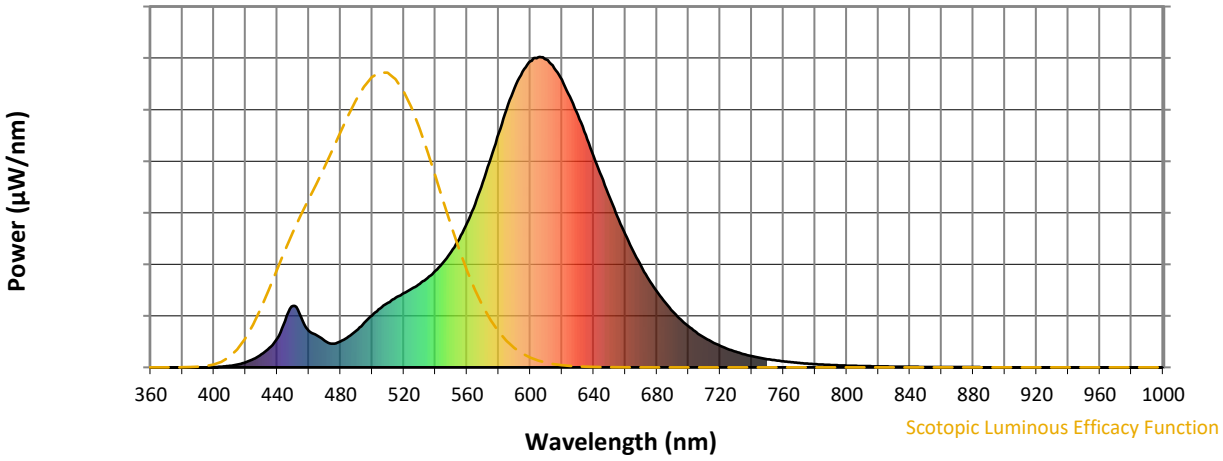


Photopic Lumens: NR

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Scotopic Flux vs. Wavelength

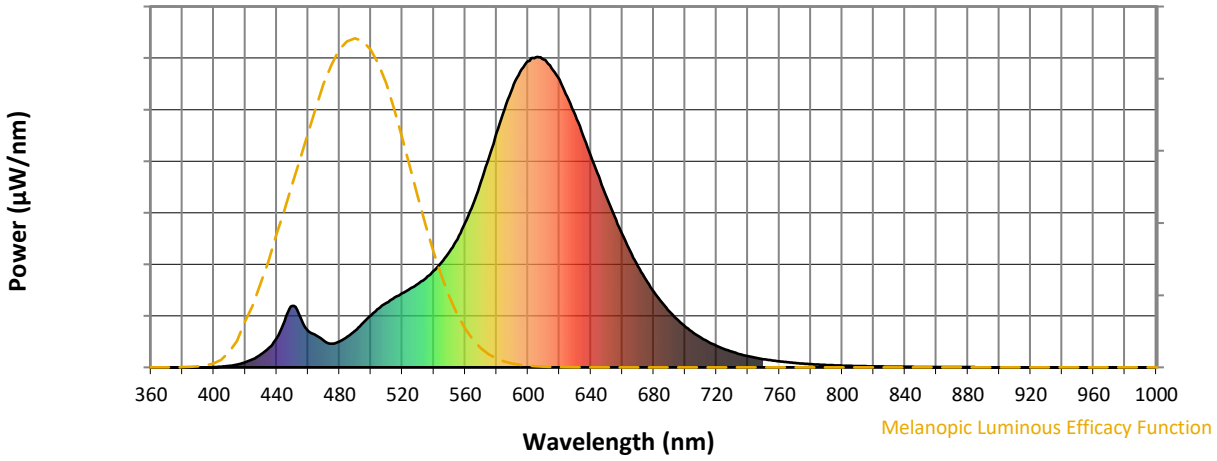


Scotopic Lumens: NR **S/P: 0.94**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 1.65**

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	118	NR	620	926	NR	750	26	NR	880	1	NR
365	0	NR	495	143	NR	625	872	NR	755	23	NR	885	1	NR
370	0	NR	500	167	NR	630	813	NR	760	19	NR	890	0	NR
375	0	NR	505	190	NR	635	748	NR	765	17	NR	895	0	NR
380	0	NR	510	208	NR	640	681	NR	770	14	NR	900	0	NR
385	0	NR	515	224	NR	645	616	NR	775	12	NR	905	0	NR
390	0	NR	520	239	NR	650	548	NR	780	10	NR	910	0	NR
395	0	NR	525	254	NR	655	486	NR	785	9	NR	915	0	NR
400	1	NR	530	269	NR	660	429	NR	790	8	NR	920	0	NR
405	2	NR	535	288	NR	665	375	NR	795	7	NR	925	0	NR
410	5	NR	540	311	NR	670	326	NR	800	6	NR	930	0	NR
415	10	NR	545	339	NR	675	282	NR	805	5	NR	935	0	NR
420	16	NR	550	372	NR	680	245	NR	810	4	NR	940	0	NR
425	27	NR	555	413	NR	685	210	NR	815	4	NR	945	0	NR
430	42	NR	560	466	NR	690	180	NR	820	3	NR	950	0	NR
435	63	NR	565	526	NR	695	154	NR	825	3	NR	955	0	NR
440	94	NR	570	597	NR	700	132	NR	830	2	NR	960	0	NR
445	150	NR	575	674	NR	705	113	NR	835	2	NR	965	0	NR
450	198	NR	580	756	NR	710	96	NR	840	2	NR	970	0	NR
455	162	NR	585	831	NR	715	82	NR	845	2	NR	975	0	NR
460	117	NR	590	900	NR	720	69	NR	850	1	NR	980	0	NR
465	103	NR	595	952	NR	725	59	NR	855	1	NR	985	0	NR
470	85	NR	600	987	NR	730	50	NR	860	1	NR	990	0	NR
475	76	NR	605	999	NR	735	43	NR	865	1	NR	995	0	NR
480	84	NR	610	991	NR	740	36	NR	870	1	NR	1000	0	NR
485	98	NR	615	964	NR	745	31	NR	875	1	NR			

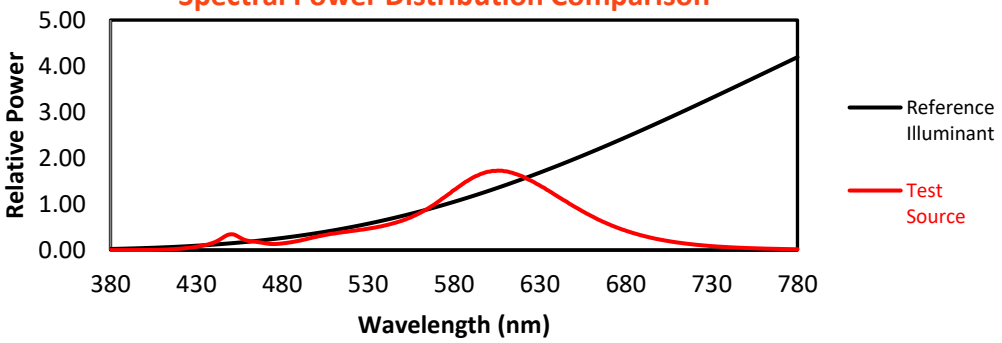
REPORT NUMBER: SP1-2501-332-2

TM-30-18

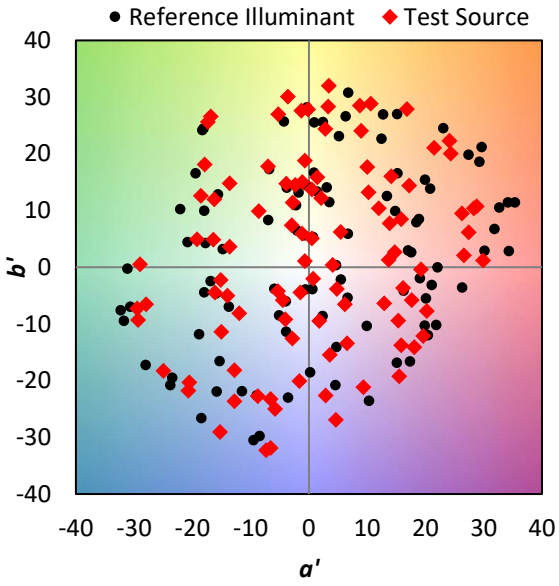
Summary

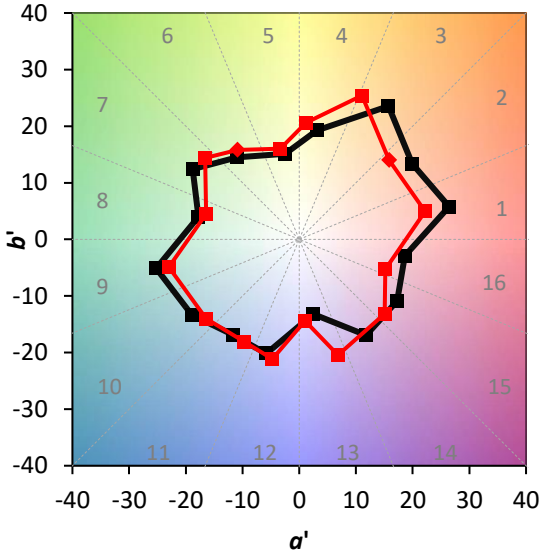
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

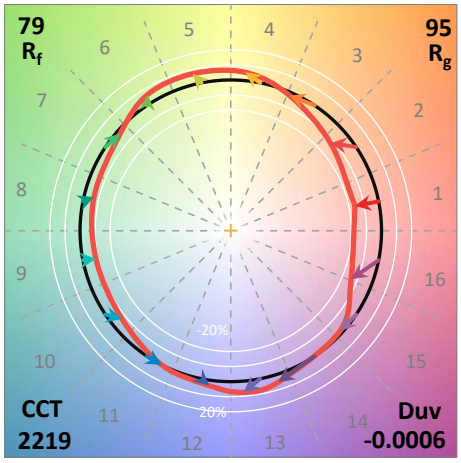
Spectral Power Distribution Comparison

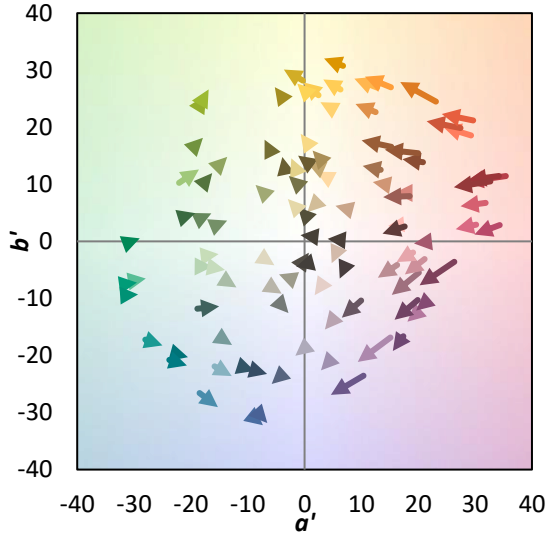


Color Vector Graphics







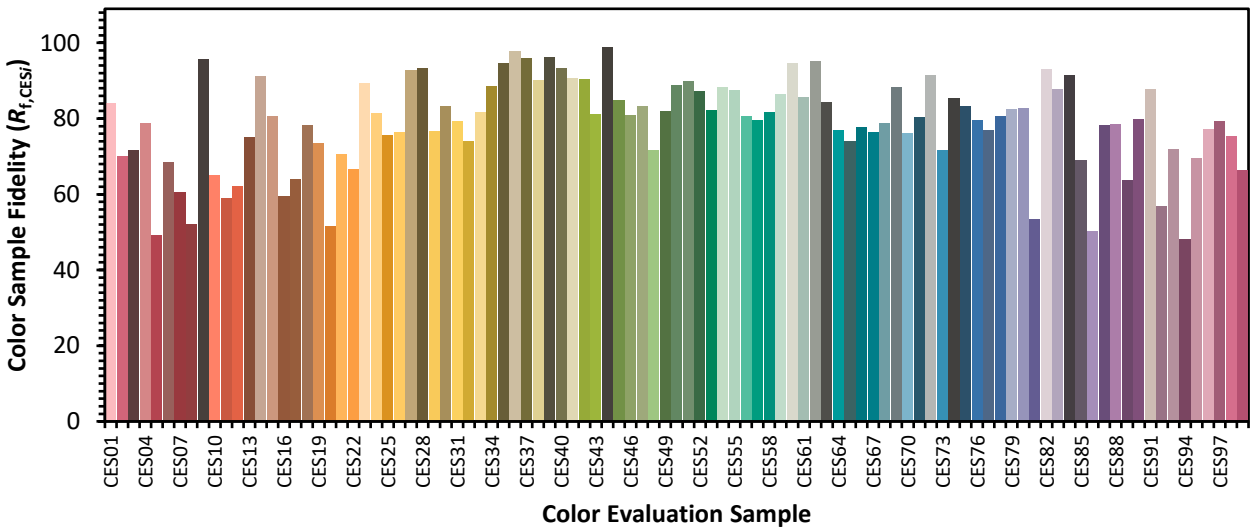


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

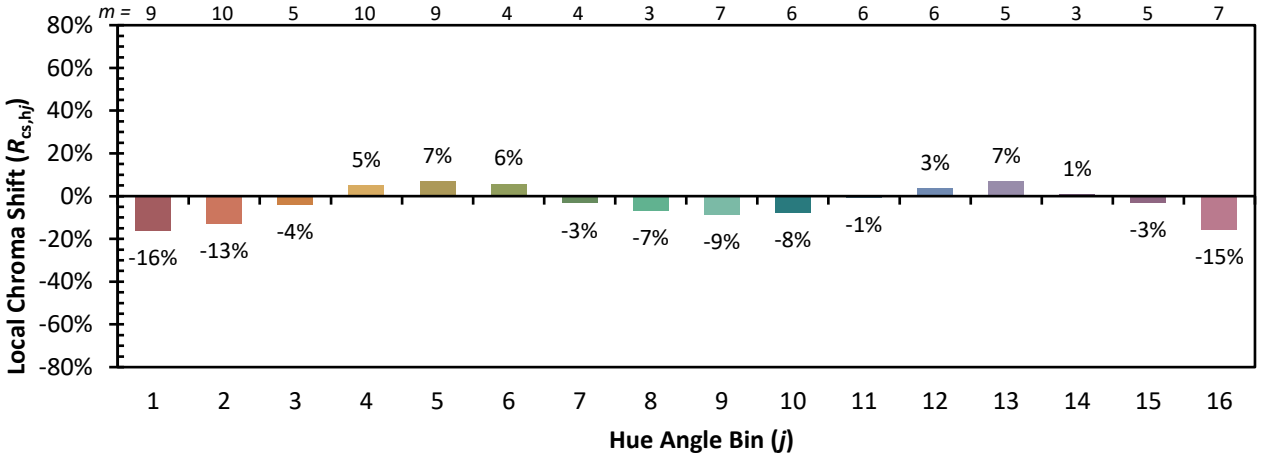
CES01 = 87	CES26 = 76	CES51 = 90	CES76 = 80
CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 80	CES82 = 93
CES08 = 42	CES33 = 82	CES58 = 82	CES83 = 88
CES09 = 29	CES34 = 89	CES59 = 87	CES84 = 91
CES10 = 79	CES35 = 95	CES60 = 95	CES85 = 69
CES11 = 62	CES36 = 98	CES61 = 86	CES86 = 50
CES12 = 68	CES37 = 96	CES62 = 95	CES87 = 78
CES13 = 45	CES38 = 90	CES63 = 84	CES88 = 79
CES14 = 75	CES39 = 96	CES64 = 77	CES89 = 64
CES15 = 72	CES40 = 93	CES65 = 74	CES90 = 80
CES16 = 49	CES41 = 91	CES66 = 78	CES91 = 88
CES17 = 51	CES42 = 90	CES67 = 77	CES92 = 57
CES18 = 57	CES43 = 81	CES68 = 79	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 88	CES94 = 48
CES20 = 68	CES45 = 85	CES70 = 76	CES95 = 70
CES21 = 88	CES46 = 81	CES71 = 80	CES96 = 77
CES22 = 81	CES47 = 83	CES72 = 91	CES97 = 79
CES23 = 92	CES48 = 72	CES73 = 72	CES98 = 75
CES24 = 92	CES49 = 82	CES74 = 85	CES99 = 66
CES25 = 73	CES50 = 89	CES75 = 83	

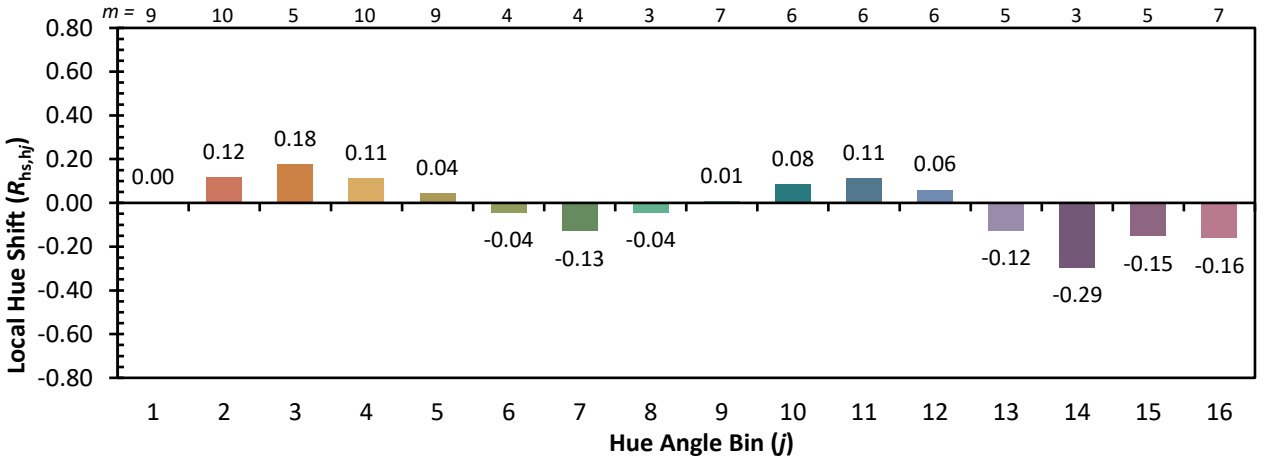


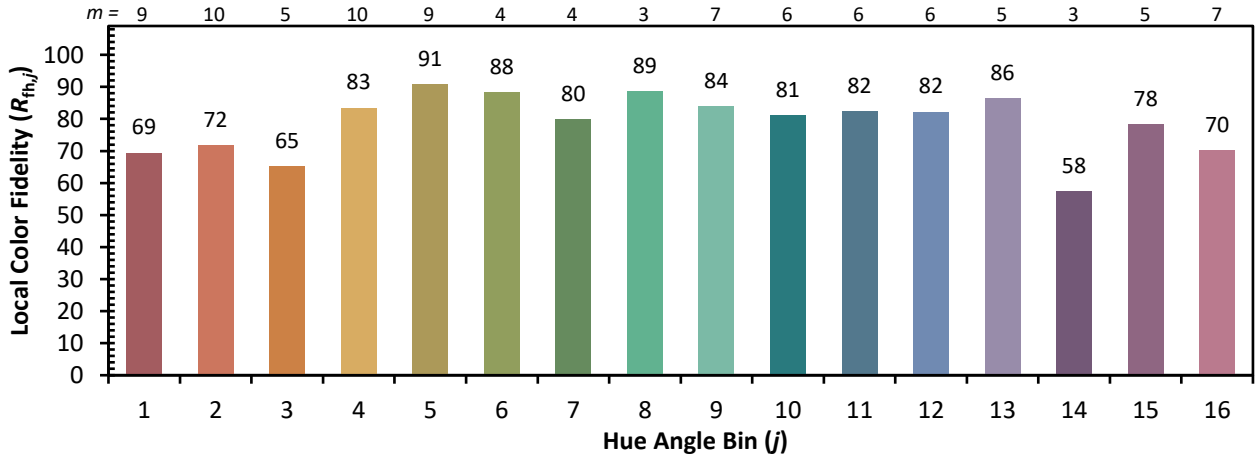
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Color Rendition by Hue-Angle Bin



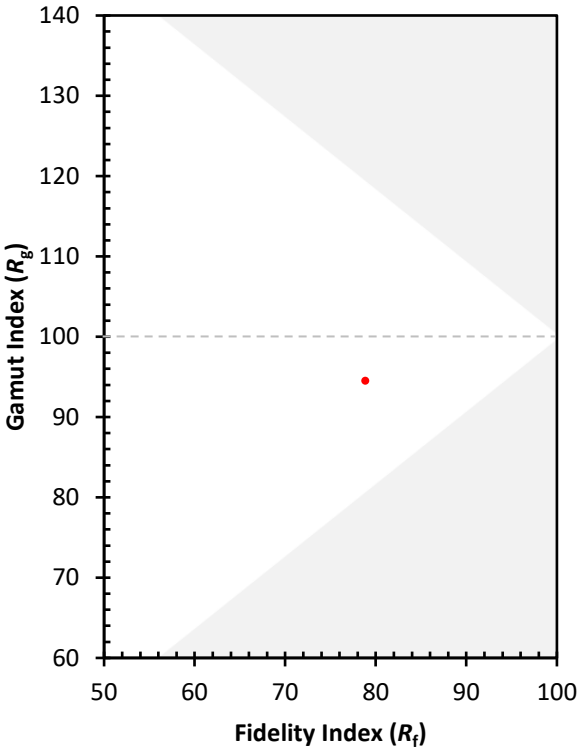


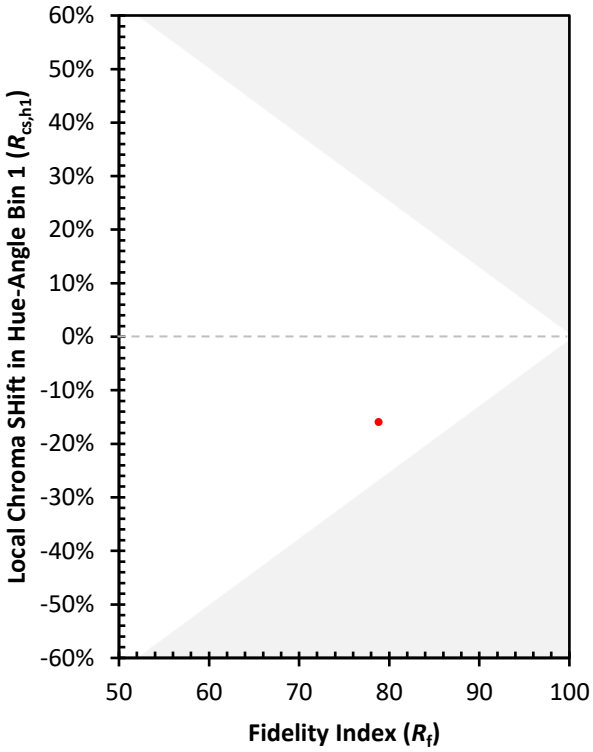


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Measure Comparisons





(END OF REPORT)