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: P1223901

Luminaire Tested: **FFX-CLB-50-730-U-VM9-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223901
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-730-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7648.6 lumens
Efficiency:	N/A
Efficacy:	151.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U5 - G4

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

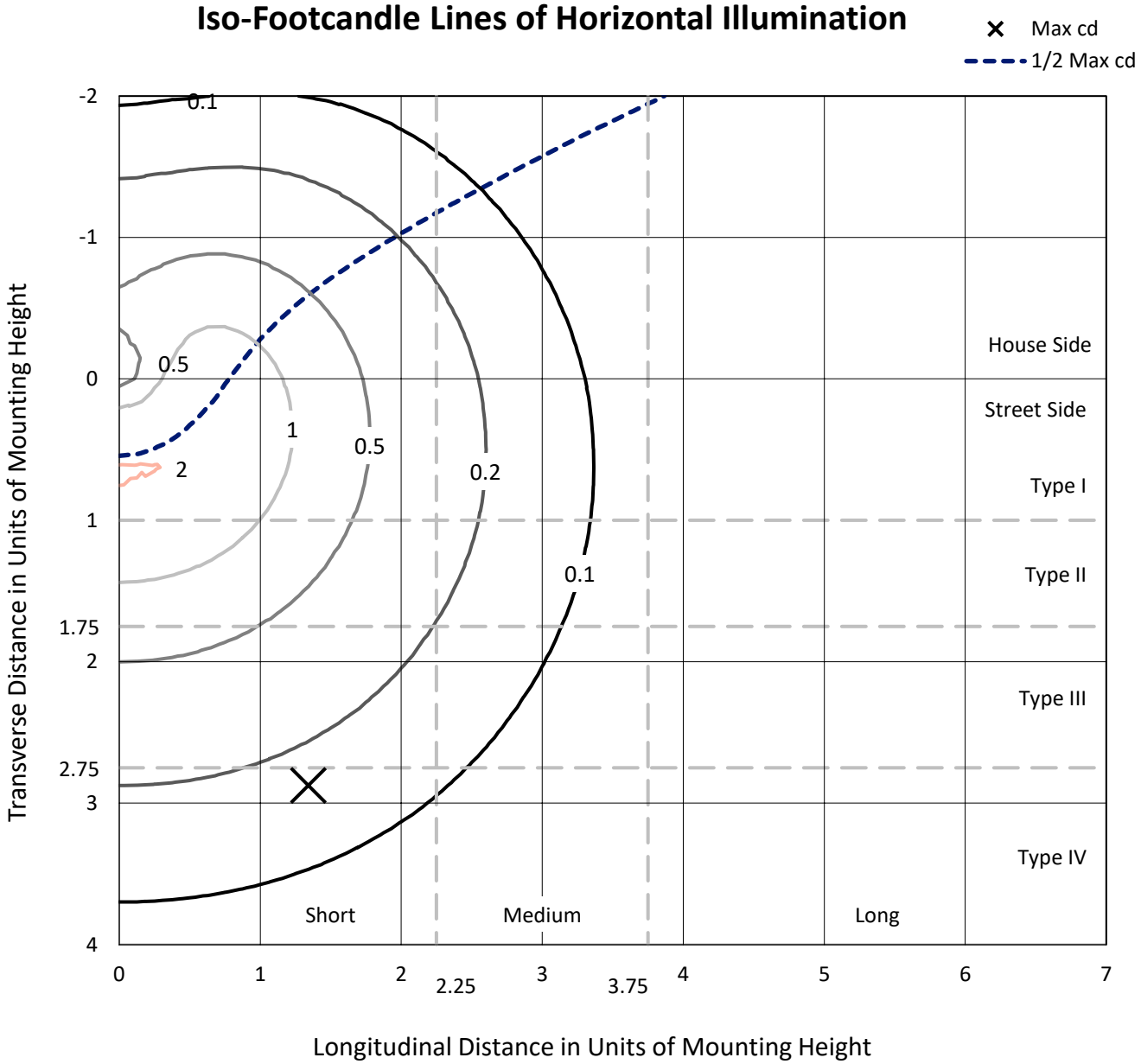


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Iso-Footcandle Lines of Horizontal Illumination



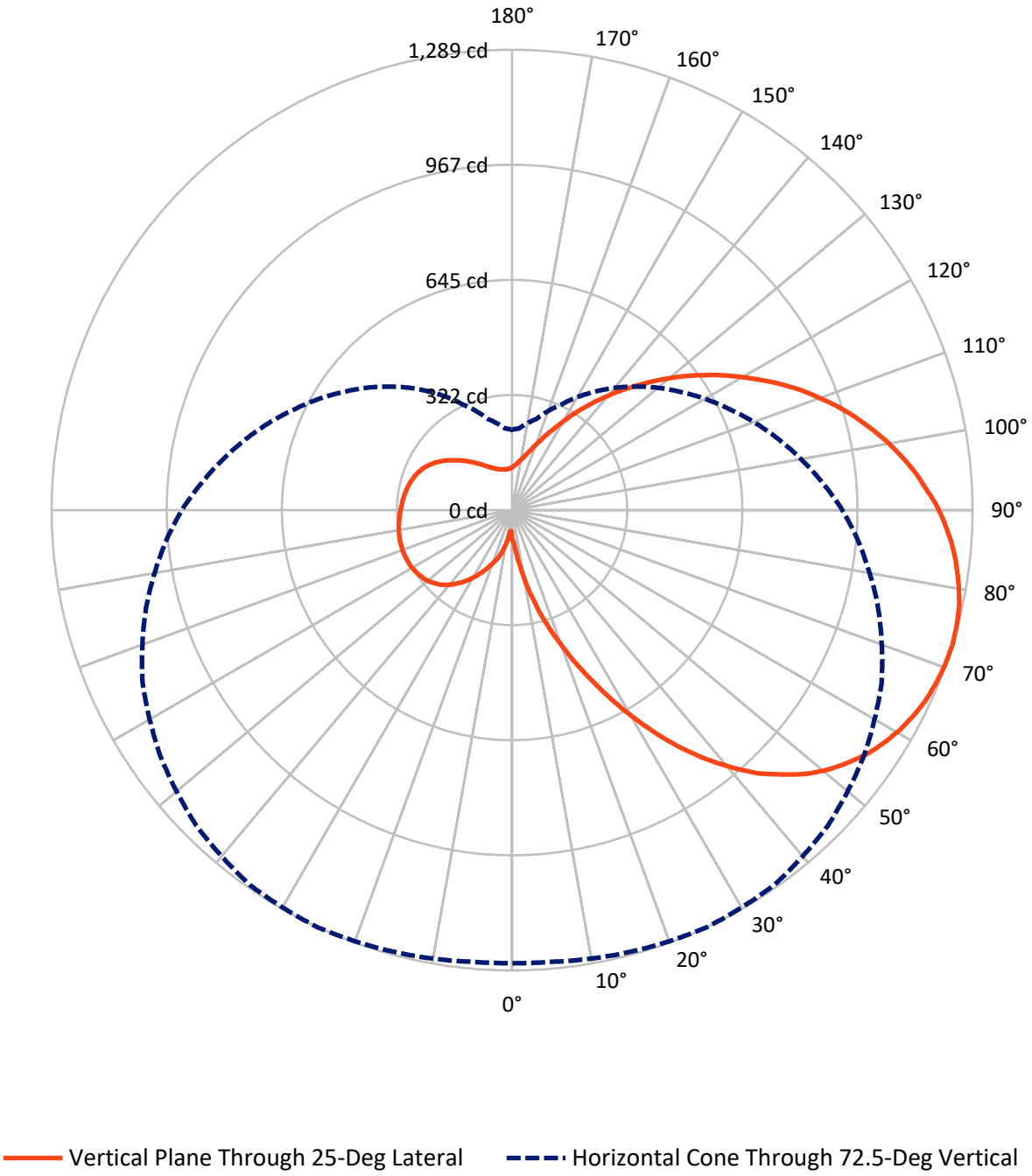
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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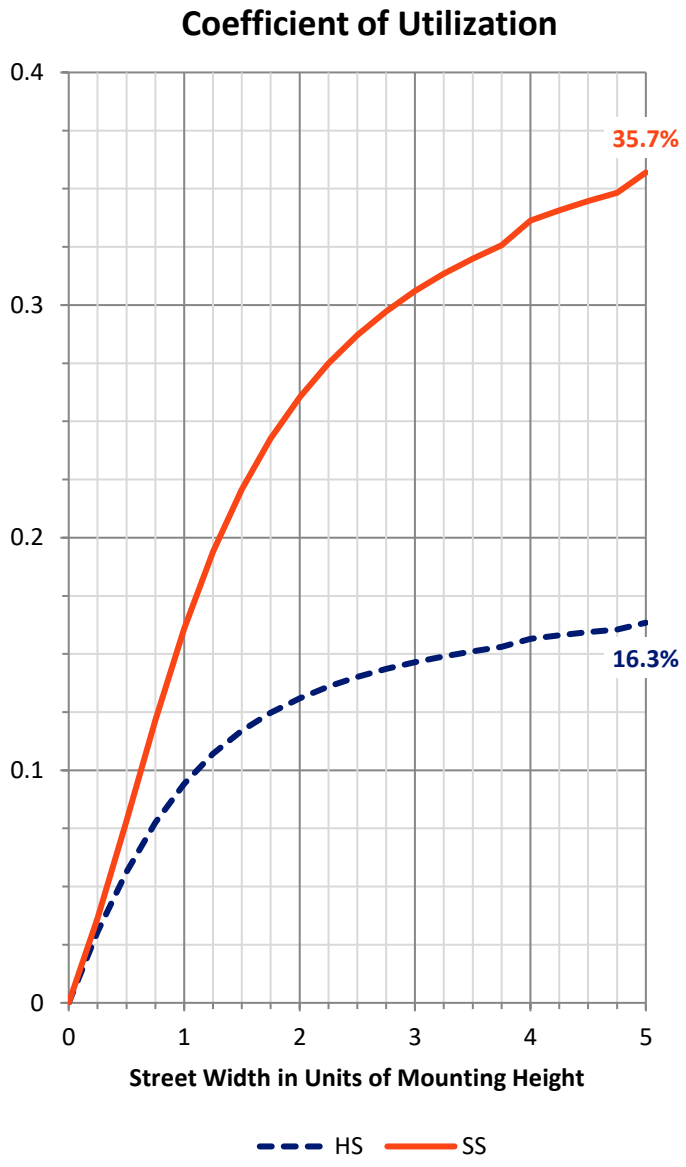
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.1	1054.6	2432.6
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	3116.7	2099.2	5216.0
	% Fixture	40.7	27.4	68.2
Total	Lumens	4494.8	3153.8	7648.6
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.1
10°-20°	64.9	0.8
20°-30°	176.9	2.3
30°-40°	350.5	4.6
40°-50°	547.2	7.2
50°-60°	717.2	9.4
60°-70°	837.0	10.9
70°-80°	898.1	11.7
80°-90°	892.1	11.7
90°-100°	827.7	10.8
100°-110°	720.8	9.4
110°-120°	583.2	7.6
120°-130°	429.3	5.6
130°-140°	283.9	3.7
140°-150°	168.0	2.2
150°-160°	88.3	1.2
160°-170°	40.9	0.5
170°-180°	11.8	0.2
0°-90°	4494.8	58.8
0°-180°	7648.6	100.0



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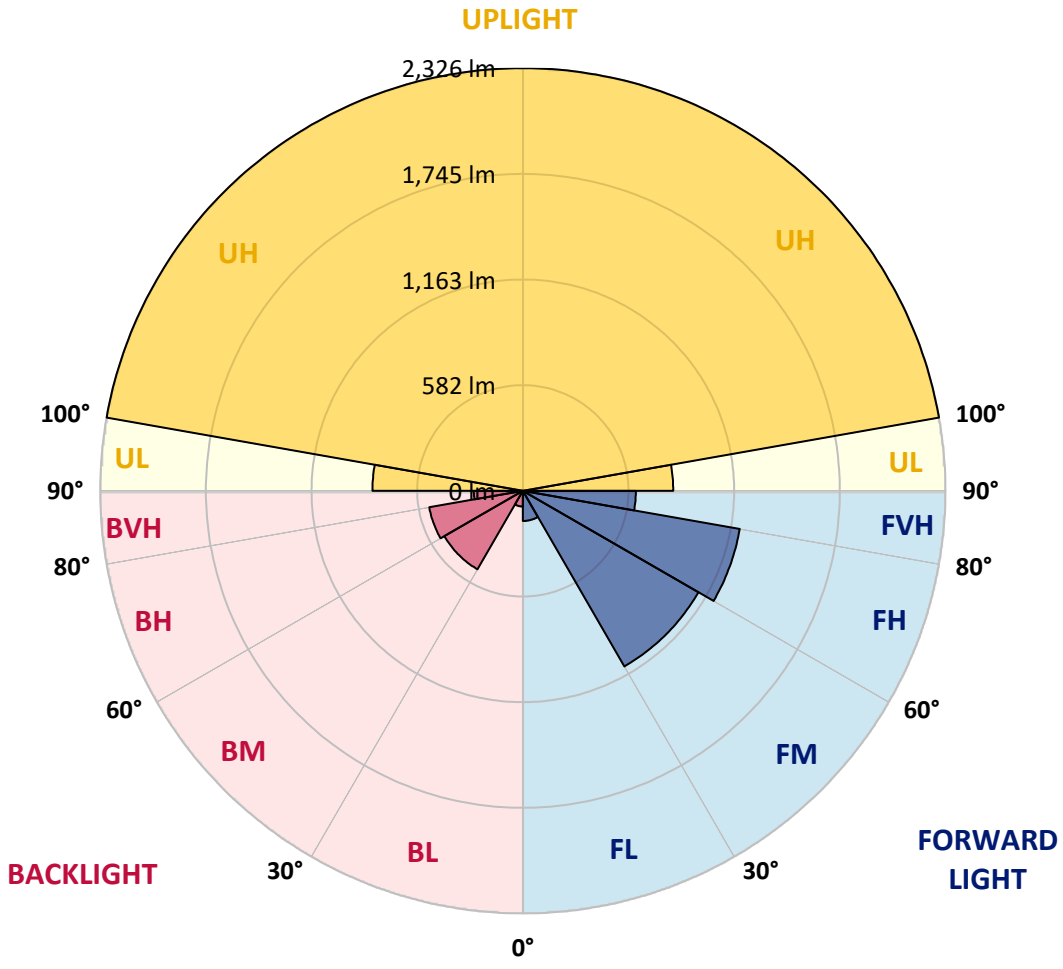
Scaled Data Report

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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°)	166.1	2.2			
FM	(30°-60°)	1116.3	14.6			
FH	(60°-80°)	1212.4	15.9			G1/1800
FVH	(80°-90°)	622.0	8.1			G4/750
BL	(0°-30°)	86.5	1.1	B0/110		
BM	(30°-60°)	498.7	6.5	B1/1000		
BH	(60°-80°)	522.7	6.8	B2/1000		G2/1000
BVH	(80°-90°)	270.2	3.5			G3/500
UL	(90°-100°)	827.7	10.8		U4/1000	
UH	(100°-180°)	2326.1	30.4		U5	

BUG Rating: B2-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	83.1	83.1	83.1	*83.1*	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	89.3	89.3	90.8	*91.3*	91.9	91.9	92.4	91.9	89.8	87.2	85.7
5°	121.8	120.8	120.2	*120.8*	120.8	118.7	115.6	109.9	105.8	99.1	96.5
7.5°	163.1	162.0	160.5	*158.9*	158.9	153.8	148.6	144.0	136.8	127.5	124.4
10°	211.1	209.0	206.9	*203.8*	200.2	195.6	188.9	181.1	171.3	161.5	155.3
12.5°	258.0	257.5	256.5	*251.8*	245.1	241.0	233.8	222.9	210.6	197.1	192.0
15°	312.2	309.6	308.1	*304.5*	300.3	292.1	280.2	269.9	255.4	236.9	230.7
17.5°	362.3	361.2	358.1	*357.1*	350.4	341.6	328.2	312.7	295.2	278.2	268.9
20°	417.0	419.6	415.9	*412.8*	401.0	392.2	379.8	364.9	343.7	319.4	309.6
22.5°	477.9	480.4	474.8	*474.8*	465.0	450.5	433.0	415.4	389.1	363.8	351.4
25°	548.6	549.6	540.8	*537.2*	530.0	515.5	494.4	473.7	443.3	411.3	396.8
27.5°	615.7	617.7	612.6	*607.9*	596.0	582.1	558.9	534.6	500.1	461.9	445.9
30°	691.5	687.4	685.3	*677.1*	664.7	650.2	624.4	597.6	557.9	513.0	493.3
32.5°	758.6	755.5	757.1	*750.3*	732.3	716.3	692.0	659.5	613.1	566.1	543.9
35°	827.8	829.3	827.2	*820.0*	809.2	788.0	755.0	718.4	671.9	616.7	592.9
37.5°	898.5	894.8	892.3	*886.1*	875.2	851.5	819.0	777.7	724.0	665.7	639.4
40°	959.3	961.9	958.8	*948.5*	938.7	912.4	876.8	829.8	774.6	712.2	681.7
42.5°	1017.1	1016.1	1013.5	*1007.9*	994.4	966.6	931.5	883.5	821.0	751.9	719.9
45°	1063.6	1064.6	1064.6	*1056.4*	1044.0	1018.7	978.4	929.4	862.8	790.1	756.5
47.5°	1108.0	1109.5	1108.5	*1104.9*	1091.5	1061.5	1020.8	970.2	899.5	824.7	787.0
50°	1147.2	1147.2	1146.7	*1143.6*	1130.7	1101.8	1060.0	1005.8	932.5	853.6	816.4
52.5°	1179.7	1179.2	1179.7	*1176.1*	1162.7	1136.4	1093.0	1035.2	961.9	877.8	841.7
55°	1205.5	1204.0	1207.6	*1206.0*	1194.2	1164.7	1118.8	1062.6	986.7	901.0	862.8
57.5°	1226.2	1225.6	1230.3	*1228.7*	1216.9	1187.4	1142.0	1084.8	1007.3	920.1	878.3
60°	1243.2	1242.1	1248.3	*1248.3*	1236.5	1207.1	1162.2	1101.8	1023.9	935.1	892.8
62.5°	1255.0	1255.6	1261.2	*1263.3*	1253.0	1223.1	1176.1	1116.7	1037.3	947.0	904.1
65°	1263.3	1264.3	1271.0	*1275.2*	1264.9	1235.4	1186.9	1127.6	1048.1	956.8	912.9
67.5°	1268.5	1269.0	1278.3	*1282.4*	1274.1	1243.2	1196.2	1135.3	1055.3	963.0	919.6
70°	1270.5	1271.0	1281.4	*1287.6*	1279.3	1247.8	1200.3	1139.5	1060.0	967.1	923.2
72.5°	*1269.0*	*1270.0*	*1280.9*	*1289.1*	*1280.9*	*1249.9*	*1201.9*	*1141.5*	*1061.0*	*971.7*	*924.3*
75°	1263.8	1264.9	1277.2	*1285.5*	1279.3	1247.3	1199.3	1139.5	1059.5	967.6	922.7
77.5°	1255.0	1256.6	1269.5	*1279.8*	1272.6	1242.1	1194.2	1133.8	1053.8	962.4	917.0
80°	1242.1	1242.7	1257.1	*1267.4*	1262.3	1231.8	1183.8	1124.0	1044.5	953.7	909.3
82.5°	1225.6	1227.7	1241.6	*1253.0*	1248.3	1216.9	1170.4	1111.6	1032.6	942.8	897.9
85°	1208.1	1210.2	1223.1	*1235.4*	1229.8	1200.3	1153.9	1095.6	1016.6	927.9	885.0
87.5°	1186.9	1188.5	1200.9	*1213.8*	1208.6	1179.2	1134.3	1077.0	1000.1	913.9	870.1
90°	1163.7	1165.3	1177.1	*1189.5*	1182.8	1154.9	1111.1	1054.8	980.0	895.4	853.0
92.5°	1138.9	1139.5	1152.9	*1159.6*	1156.0	1131.2	1087.8	1033.7	958.8	876.3	836.5
95°	1111.1	1111.1	1124.0	*1131.2*	1125.0	1101.8	1061.0	1006.8	934.1	856.7	815.9
97.5°	1080.6	1081.7	1091.5	*1098.7*	1096.6	1072.4	1033.7	982.1	912.4	835.5	796.8
100°	1049.1	1049.1	1057.9	*1064.1*	1059.5	1039.9	1003.2	955.7	885.0	812.8	775.1
102.5°	1016.1	1015.6	1022.8	*1027.5*	1024.4	1006.3	972.3	925.3	859.2	789.1	753.4
105°	979.5	977.9	985.2	*990.3*	987.2	971.2	942.3	896.9	832.9	765.8	731.8
107.5°	940.3	942.8	947.0	*950.1*	947.5	933.5	906.2	865.9	805.6	741.6	708.5
110°	903.1	904.6	905.2	*908.8*	908.3	896.9	873.7	833.4	776.1	715.8	683.8

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REPORT NUMBER: P1223901
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	865.4	864.9	865.4	*868.0*	868.0	856.7	834.5	799.4	747.2	688.4	659.0
115°	824.7	822.6	823.1	*823.6*	825.7	816.9	797.8	764.8	713.7	661.6	632.7
117.5°	782.3	781.8	780.8	*779.2*	779.2	775.6	759.1	729.7	681.2	629.6	605.3
120°	742.1	740.0	737.4	*735.9*	736.9	732.8	719.4	690.0	647.1	600.7	576.4
122.5°	695.6	697.2	695.6	*693.6*	694.1	690.0	678.6	653.8	611.0	566.6	545.0
125°	655.9	655.4	653.3	*650.2*	650.2	648.7	636.3	614.6	576.4	534.1	514.0
127.5°	611.5	612.0	610.0	*608.4*	609.5	606.4	598.1	573.3	539.8	502.1	482.5
130°	569.7	569.2	568.7	*565.6*	568.2	562.5	555.3	534.6	502.6	470.6	452.6
132.5°	530.5	527.4	525.3	*524.8*	524.3	523.8	515.0	497.0	470.1	438.1	420.6
135°	491.3	488.7	486.1	*485.1*	486.1	483.5	475.8	460.8	436.1	405.1	391.7
137.5°	451.0	450.0	450.0	*447.4*	447.4	445.4	438.6	426.3	403.0	376.2	362.8
140°	414.9	412.8	411.8	*410.3*	411.8	409.7	402.5	390.7	371.0	347.8	334.9
142.5°	377.8	375.7	377.2	*375.7*	374.1	373.1	366.9	357.6	340.6	319.4	308.6
145°	343.2	343.2	342.1	*342.7*	341.6	340.6	334.4	325.6	311.2	291.6	283.8
147.5°	310.7	311.7	310.7	*311.7*	311.7	307.6	303.4	296.2	282.8	267.3	259.1
150°	280.2	281.8	280.7	*280.2*	280.7	278.7	273.0	268.9	257.0	243.6	235.3
152.5°	254.4	255.4	255.4	*254.4*	253.9	252.9	247.2	241.5	232.2	221.9	216.2
155°	230.2	230.2	230.7	*231.2*	229.6	226.5	224.5	219.8	211.6	202.3	196.6
157.5°	210.0	209.5	210.0	*209.5*	209.0	205.9	202.8	199.2	192.5	184.2	181.1
160°	190.9	190.9	191.5	*190.9*	188.9	187.3	184.7	181.7	176.0	170.3	166.2
162.5°	175.5	175.5	175.5	*174.9*	172.9	172.4	169.3	166.2	161.5	156.9	153.8
165°	162.0	162.0	161.5	*161.5*	160.5	158.9	156.4	153.8	149.7	146.0	144.0
167.5°	151.2	150.7	150.2	*149.7*	149.1	147.6	145.0	143.5	140.4	137.3	135.7
170°	141.9	141.9	141.4	*141.4*	140.4	138.8	137.3	135.2	133.1	130.0	129.0
172.5°	133.7	133.7	133.7	*133.7*	132.1	131.6	130.0	128.5	126.9	124.9	123.9
175°	127.5	127.5	127.5	*127.5*	126.4	125.4	124.9	123.3	122.3	120.8	120.2
177.5°	122.8	122.8	122.8	*122.8*	122.3	121.3	120.8	119.7	118.7	118.2	117.7
180°	118.7	118.7	118.7	*118.7*	118.7	118.7	118.7	118.7	118.7	118.7	118.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
2.5°	84.1	81.0	76.9	72.2	68.6	64.0	59.3	56.8	55.2	54.2
5°	93.9	87.2	81.0	74.3	69.2	64.5	59.3	55.2	53.2	52.6
7.5°	119.7	110.4	101.1	92.9	85.7	78.4	73.3	69.2	66.6	66.6
10°	150.7	137.8	126.9	116.1	106.3	97.5	90.3	86.2	83.1	82.1
12.5°	185.8	170.3	155.3	142.9	128.5	118.7	109.9	104.2	100.6	100.1
15°	222.4	206.4	187.3	170.3	154.3	138.8	128.5	120.2	117.1	117.1
17.5°	257.5	236.9	215.7	195.1	175.5	157.4	142.9	133.7	129.0	128.0
20°	295.2	270.4	243.1	218.8	194.6	173.4	156.4	144.5	138.3	137.8
22.5°	333.9	305.0	275.6	243.6	215.7	190.4	170.3	156.4	148.6	147.6
25°	378.3	343.2	308.1	273.0	239.5	209.5	185.8	168.8	160.0	158.9
27.5°	427.3	383.4	341.6	301.4	262.2	229.1	200.7	181.1	170.3	169.8
30°	472.2	423.7	376.2	329.8	286.9	247.2	215.7	193.0	181.1	179.6
32.5°	517.1	463.4	409.7	358.7	309.1	266.3	230.7	204.4	190.4	189.4
35°	563.5	502.6	444.3	385.5	333.9	285.4	244.6	215.7	200.7	198.7
37.5°	606.9	541.3	477.4	414.9	355.6	302.9	258.0	226.5	209.5	206.9
40°	646.6	575.9	507.3	440.2	376.2	319.4	270.9	235.8	216.7	214.7
42.5°	683.3	608.4	534.6	462.4	395.3	333.9	281.8	243.6	222.4	220.4
45°	717.8	638.9	559.9	483.0	411.8	347.3	292.1	250.8	228.1	225.0
47.5°	747.2	664.7	580.0	500.6	426.8	358.7	299.8	256.0	232.2	229.1
50°	773.6	686.4	599.1	517.6	439.7	369.0	307.1	260.1	234.3	231.2
52.5°	794.7	706.5	615.7	531.0	451.5	377.2	312.2	263.7	236.4	233.3
55°	815.4	723.0	630.1	542.9	460.3	385.0	316.3	265.8	237.4	233.8
57.5°	832.4	736.9	642.0	552.2	469.1	390.1	320.0	266.8	237.4	233.3
60°	844.8	747.8	651.3	559.9	474.8	394.8	322.5	267.3	236.9	232.7
62.5°	855.6	756.5	658.0	566.6	480.4	398.4	325.1	267.8	235.8	231.7
65°	863.9	763.8	663.6	570.8	484.1	401.5	325.6	267.3	234.3	230.2
67.5°	870.6	768.4	667.3	574.4	486.6	403.0	326.7	266.8	233.3	228.6
70°	873.2	770.5	669.3	575.9	488.2	404.1	326.7	265.8	231.2	226.5
72.5°	*872.7*	*770.5*	*669.8*	*576.4*	*488.7*	*404.6*	*326.1*	*264.2*	*229.6*	*225.0*
75°	871.1	768.9	668.8	575.9	488.2	404.1	325.6	263.2	228.1	224.0
77.5°	867.0	764.8	665.2	573.9	487.2	402.5	324.1	262.2	227.1	221.9
80°	859.8	758.6	660.0	569.2	483.5	401.0	322.5	260.1	225.0	220.9
82.5°	849.4	750.9	653.8	565.1	480.4	397.9	320.5	259.1	224.0	219.8
85°	837.6	741.1	645.6	558.9	475.8	394.8	317.9	257.0	222.9	218.8
87.5°	823.1	728.2	637.3	551.7	470.1	390.7	315.3	255.4	222.4	218.3
90°	808.1	716.3	627.0	545.0	465.5	386.5	312.7	254.4	221.9	218.3
92.5°	791.6	703.4	617.2	536.2	459.3	382.4	310.1	253.4	221.9	218.3
95°	775.1	690.0	607.4	528.4	453.1	378.3	307.6	252.9	222.9	219.3
97.5°	755.5	674.5	595.5	520.2	445.9	373.6	305.5	252.4	223.5	220.4
100°	736.9	659.0	583.1	510.9	439.2	368.5	302.4	251.8	224.5	220.9
102.5°	716.8	644.0	570.8	501.1	431.9	362.8	299.8	251.3	225.5	222.4
105°	696.7	626.0	557.3	489.7	423.2	357.1	296.7	250.8	226.0	222.9
107.5°	674.5	608.9	542.4	478.9	414.4	350.9	292.6	249.8	226.5	223.5
110°	651.8	588.8	526.9	466.5	404.1	343.2	288.5	247.2	226.0	223.5

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

Scaled Data Report

REPORT NUMBER: P1223901
CATALOG NUMBER: FFX-CLB-50-730-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	630.1	569.7	509.9	452.6	393.2	335.4	282.8	244.6	224.5	222.4
115°	603.3	548.1	491.8	437.6	380.8	325.6	276.6	241.0	222.4	219.8
117.5°	578.5	525.3	472.7	421.6	367.9	315.8	269.4	236.4	218.8	216.7
120°	550.6	501.1	452.1	403.6	353.5	304.5	260.6	230.7	214.2	212.6
122.5°	523.3	477.4	430.9	385.0	338.0	291.6	251.8	223.5	209.0	207.5
125°	494.4	452.1	408.7	365.4	321.0	278.2	241.5	215.2	202.3	200.7
127.5°	465.0	425.7	385.0	344.7	304.5	264.7	230.7	206.9	194.6	194.0
130°	434.0	398.9	361.8	324.6	287.4	250.8	219.3	198.2	186.8	185.8
132.5°	406.1	373.6	339.0	304.0	268.9	236.9	208.5	188.9	179.1	178.0
135°	378.8	346.3	316.3	285.4	252.9	222.9	197.6	180.1	171.3	170.3
137.5°	350.9	322.5	294.7	265.8	236.4	209.5	187.3	171.8	164.1	163.1
140°	323.1	299.3	274.0	246.7	221.4	197.1	177.0	164.1	156.9	155.8
142.5°	297.8	275.1	252.4	228.6	205.9	185.3	167.7	155.3	149.1	148.6
145°	273.0	253.4	232.7	211.6	192.0	174.9	158.9	148.6	143.5	142.9
147.5°	250.8	233.3	214.7	196.6	179.6	163.6	150.7	141.9	136.8	136.2
150°	228.6	213.1	197.6	182.2	167.7	154.3	142.9	135.7	132.1	131.1
152.5°	209.0	196.6	182.7	169.8	156.9	145.5	136.8	130.0	126.9	126.4
155°	191.5	181.1	169.8	158.4	148.1	138.8	131.1	125.9	123.3	123.3
157.5°	176.5	167.7	158.4	149.1	140.9	133.1	126.9	122.8	120.8	120.2
160°	163.1	155.3	148.1	141.4	133.7	128.0	123.3	119.7	118.2	117.7
162.5°	150.7	145.5	139.9	134.2	128.5	123.9	120.2	117.7	116.6	116.6
165°	141.9	137.3	132.6	128.5	124.4	121.3	118.2	116.6	115.6	115.1
167.5°	134.2	130.6	127.5	124.4	121.3	118.7	116.6	115.6	114.6	114.6
170°	128.0	125.4	123.3	121.3	119.2	117.1	116.1	115.1	114.6	114.6
172.5°	122.8	121.3	119.7	118.7	117.1	116.1	115.1	114.6	114.6	114.6
175°	119.7	118.7	117.7	117.1	116.6	116.1	115.6	115.1	115.1	115.1
177.5°	117.7	117.1	117.1	116.6	116.6	116.6	116.6	116.6	116.6	116.6
180°	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7	118.7

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: SP1-2501-332-4

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

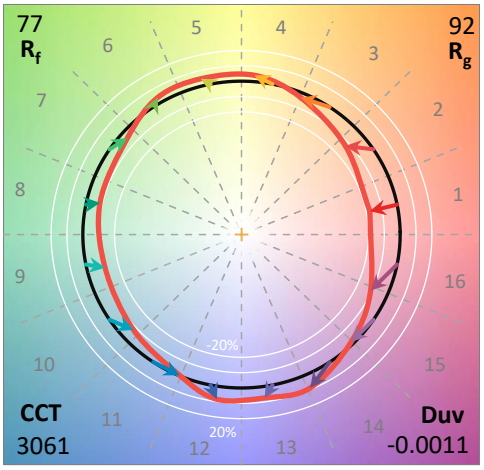
Test Information

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

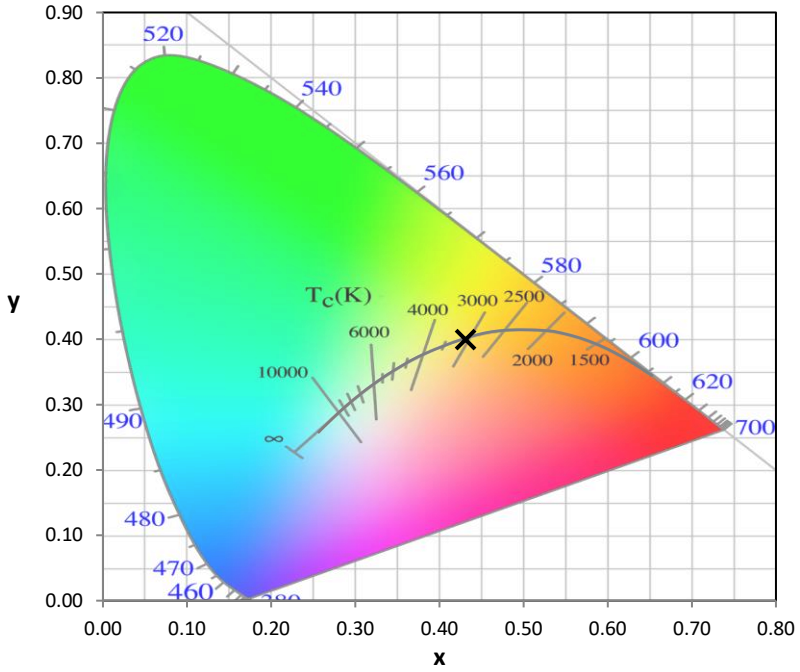
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

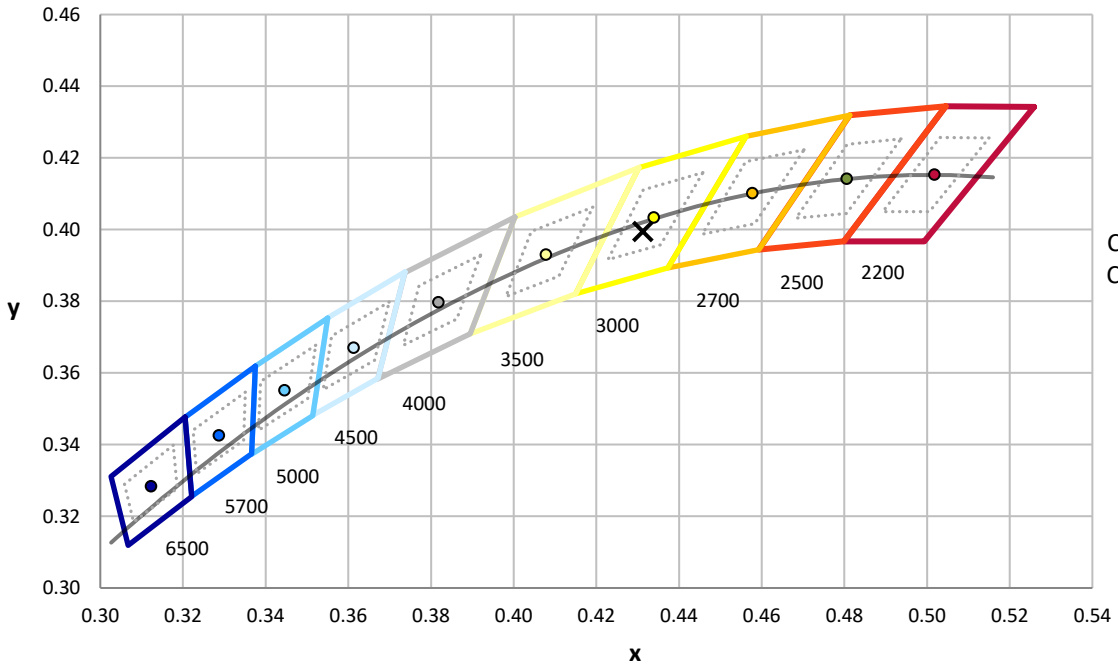
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

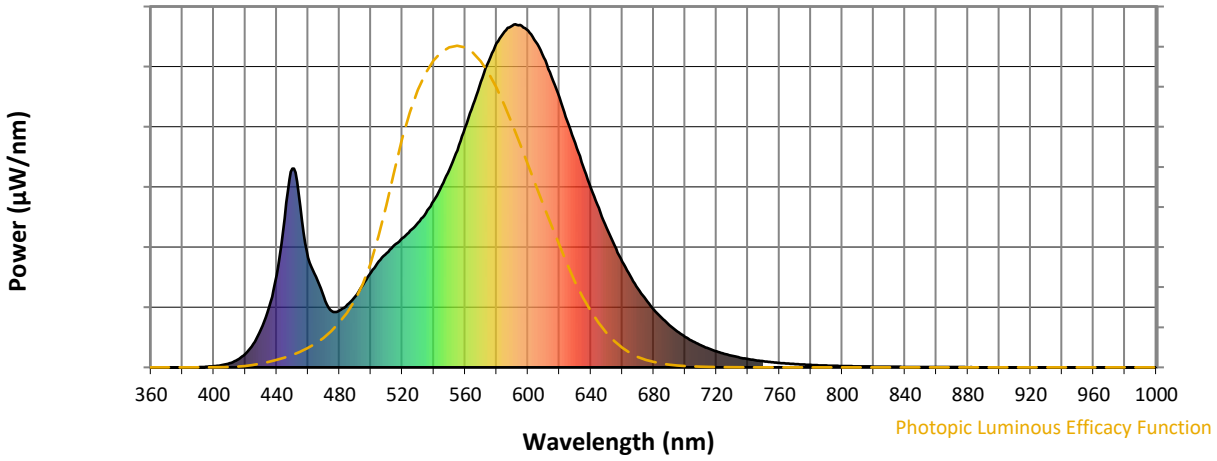


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

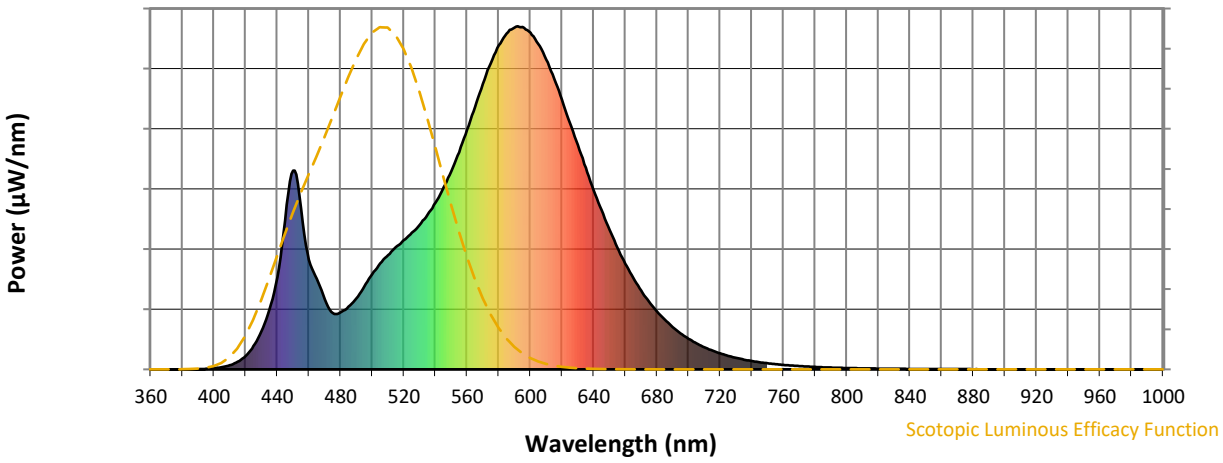


Photopic Lumens: NR

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

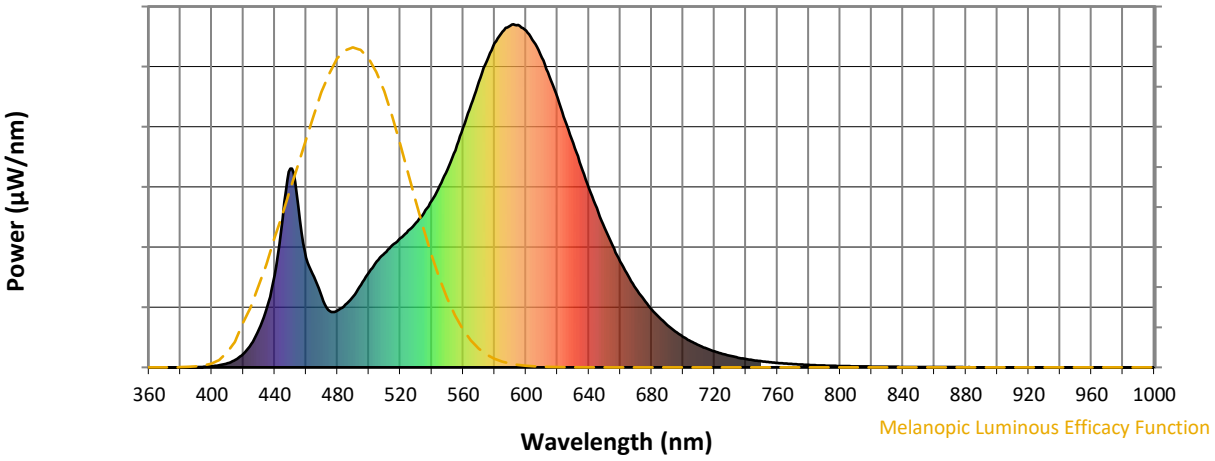


Scotopic Lumens: NR **S/P: 1.29**

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			

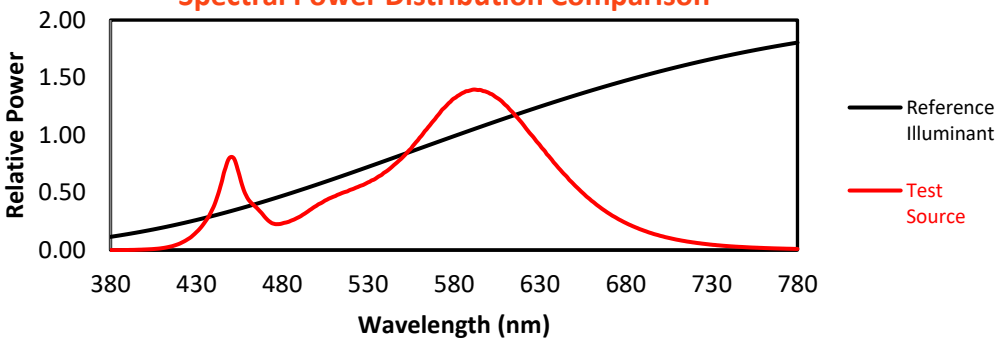
REPORT NUMBER: SP1-2501-332-4

TM-30-18

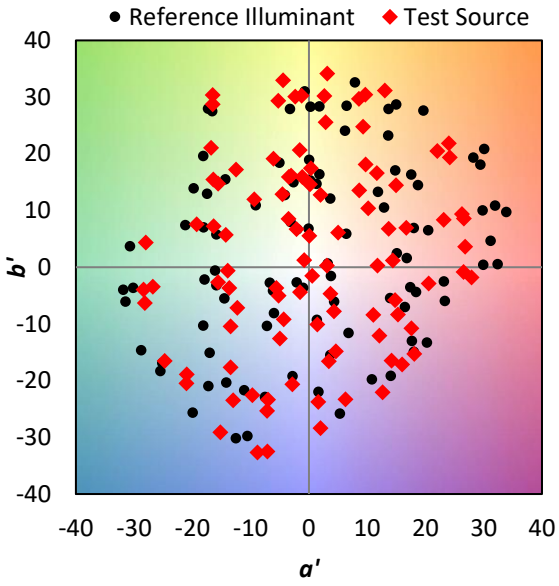
Summary

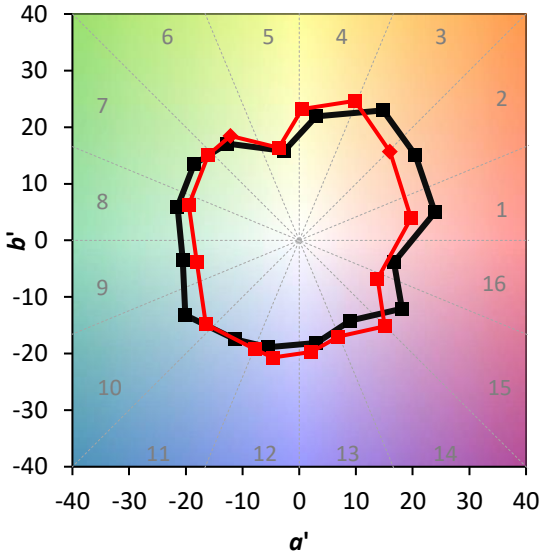
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

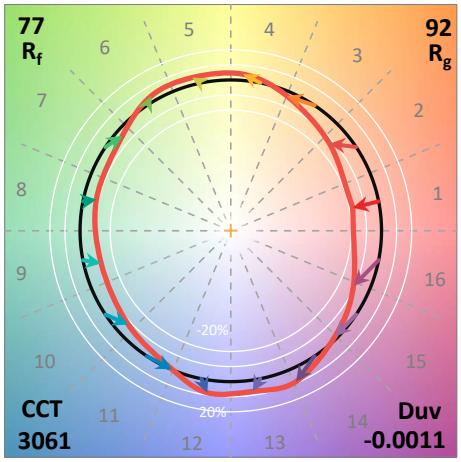
Spectral Power Distribution Comparison

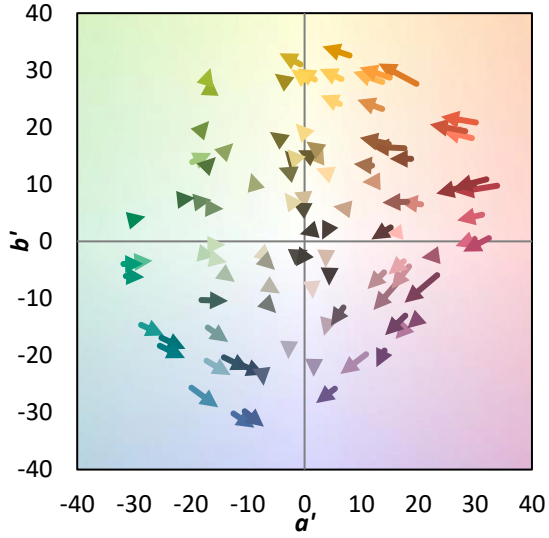


Color Vector Graphics







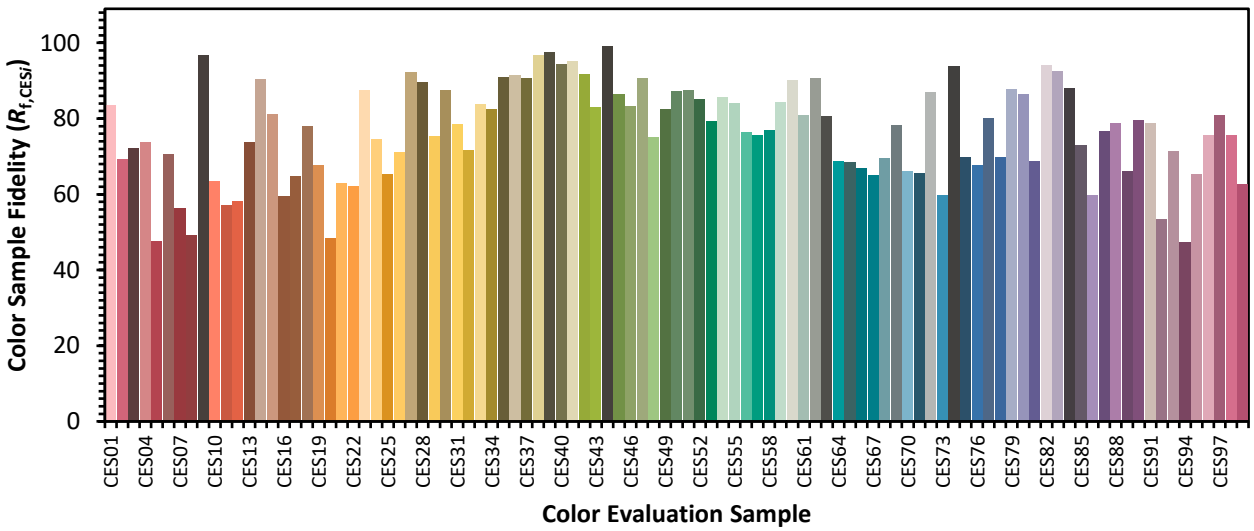


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

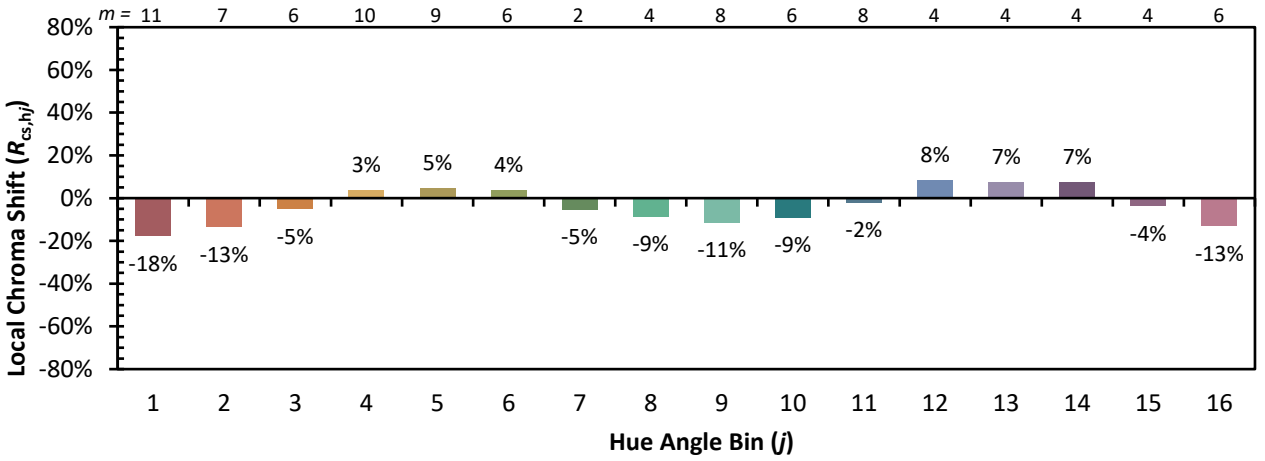
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 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	

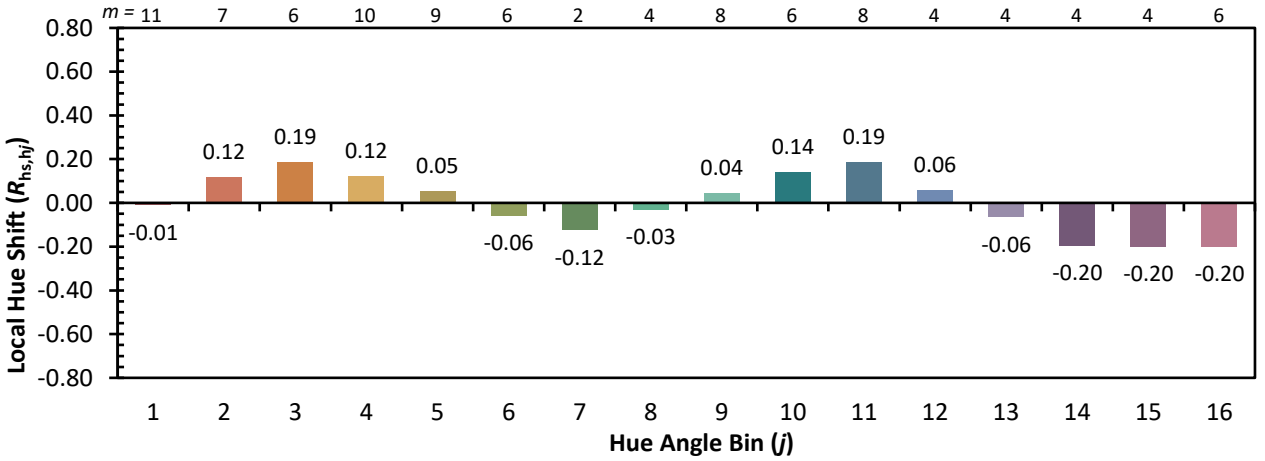


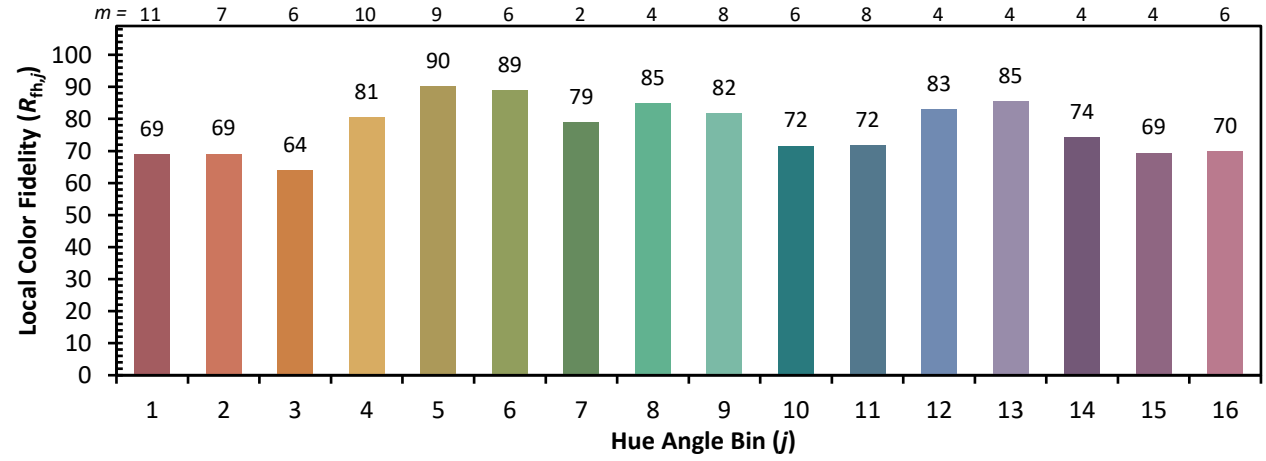
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Color Rendition by Hue-Angle Bin



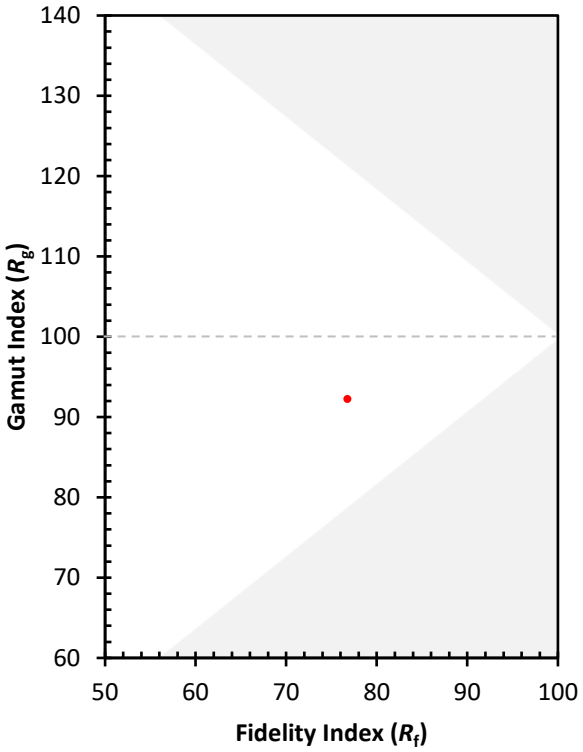


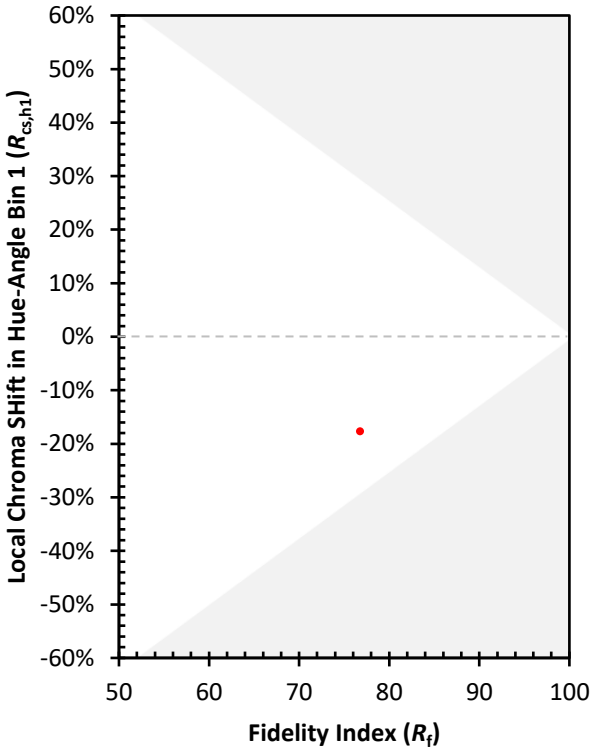


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Measure Comparisons





(END OF REPORT)