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: P1223882

Luminaire Tested: **FFX-CLB-60-722-U-VM9-T4**

Issue Date: 01/27/2026

Report Generated By 670245763

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

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223882
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-722-U-VM9-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 2200K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7649.6 lumens
Efficiency:	N/A
Efficacy:	126.2 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):	60.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	8.53%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

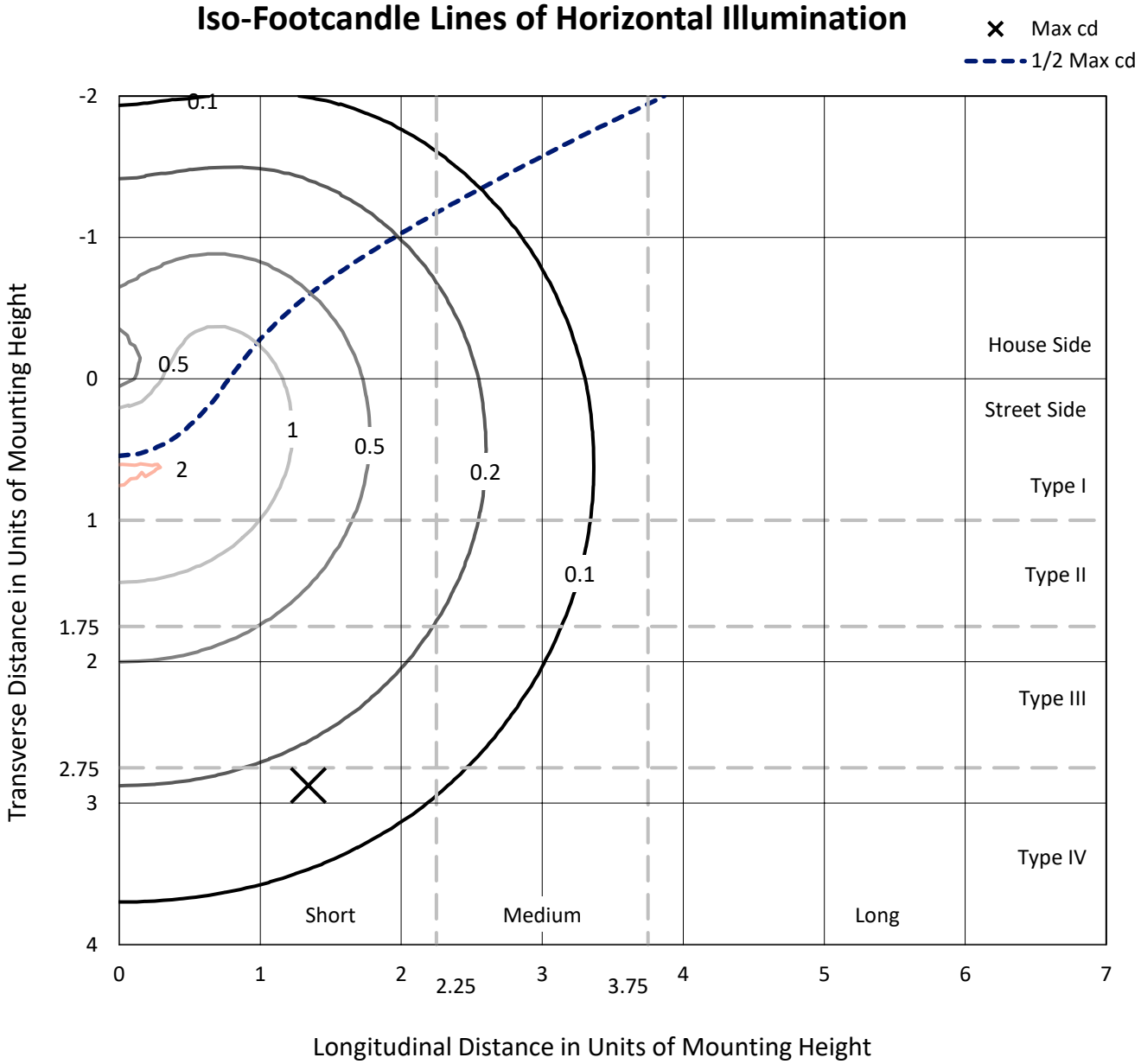


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Iso-Footcandle Lines of Horizontal Illumination



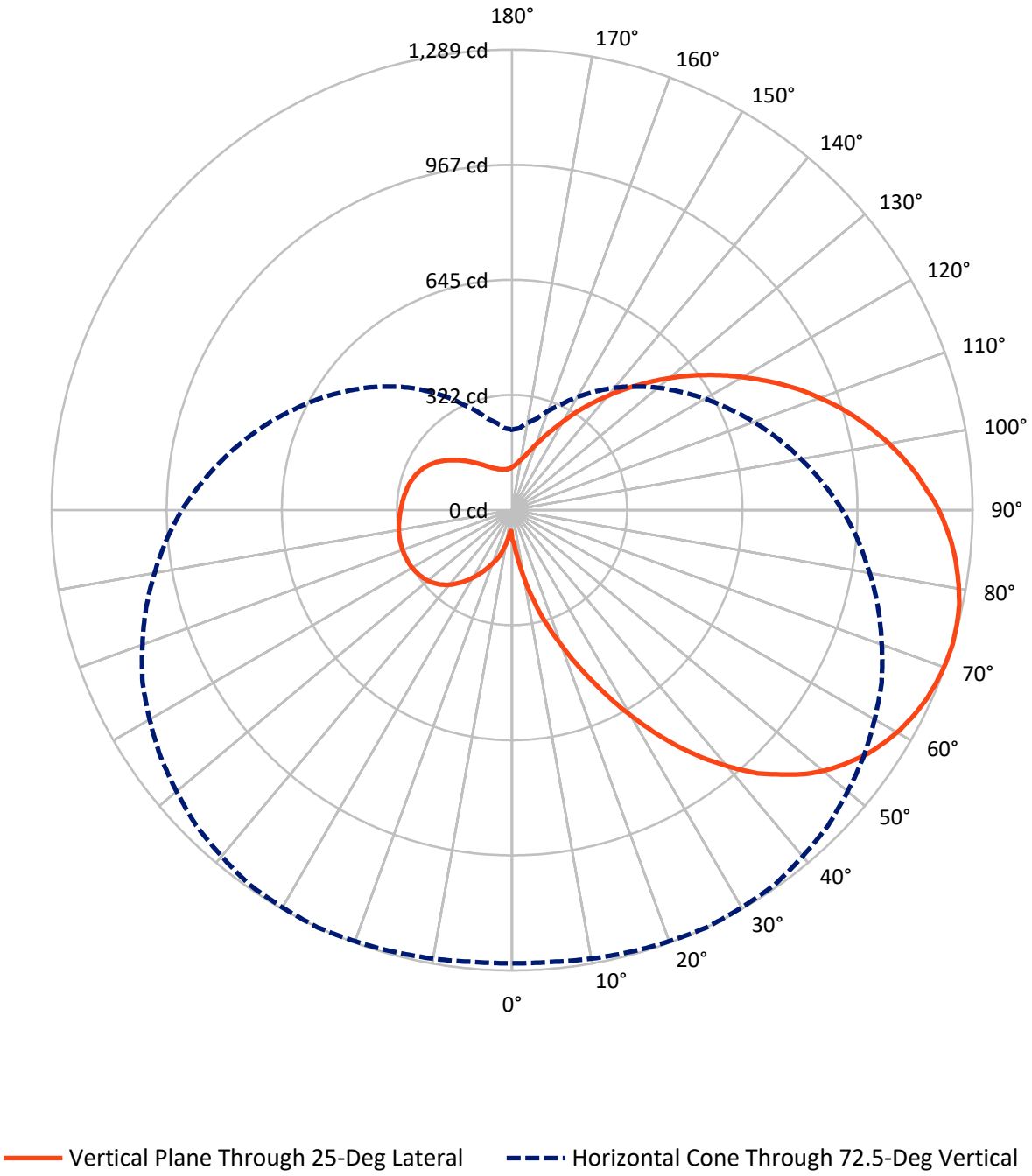
Based on 15 foot mounting height. Maximum calculated value = 2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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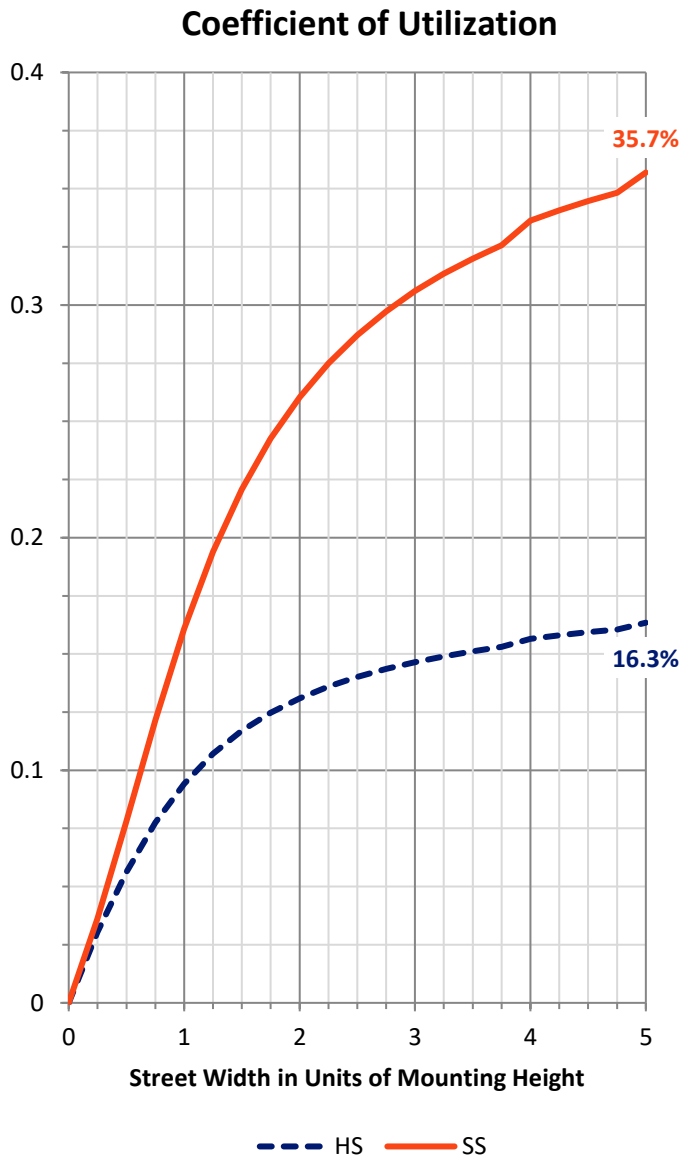
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.3	1054.7	2433.0
	% Fixture	18.0	13.8	31.8
Street Side	Lumens	3117.2	2099.5	5216.7
	% Fixture	40.7	27.4	68.2
Total	Lumens	4495.4	3154.2	7649.6
	% 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°	350.6	4.6
40°-50°	547.3	7.2
50°-60°	717.3	9.4
60°-70°	837.1	10.9
70°-80°	898.2	11.7
80°-90°	892.3	11.7
90°-100°	827.8	10.8
100°-110°	720.9	9.4
110°-120°	583.2	7.6
120°-130°	429.4	5.6
130°-140°	284.0	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°	4495.4	58.8
0°-180°	7649.6	100.0



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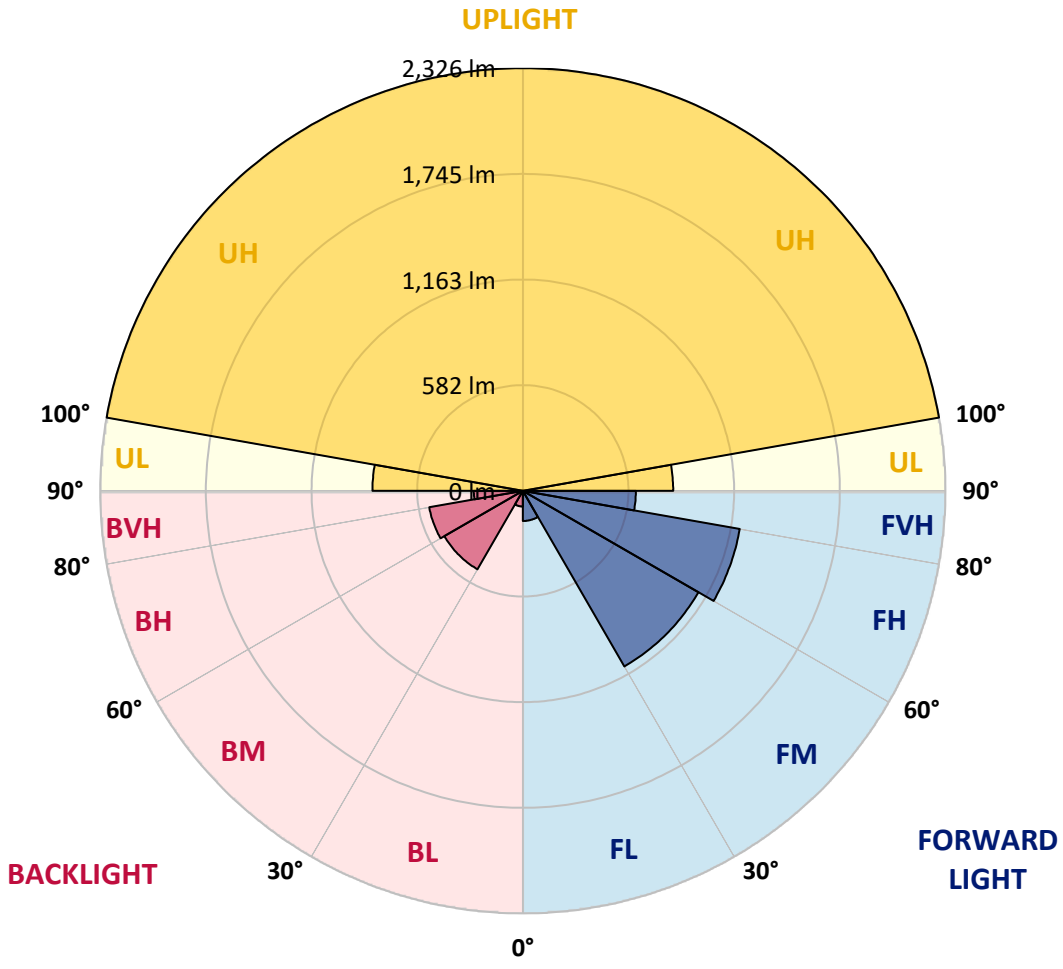
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	166.1	2.2			
FM	(30°-60°)	1116.4	14.6			
FH	(60°-80°)	1212.5	15.9			G1/1800
FVH	(80°-90°)	622.1	8.1			G4/750
BL	(0°-30°)	86.5	1.1	B0/110		
BM	(30°-60°)	498.8	6.5	B1/1000		
BH	(60°-80°)	522.8	6.8	B2/1000		G2/1000
BVH	(80°-90°)	270.2	3.5			G3/500
UL	(90°-100°)	827.8	10.8		U4/1000	
UH	(100°-180°)	2326.4	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	*91.4*	91.9	91.9	92.4	91.9	89.8	87.2	85.7
5°	121.8	120.8	120.3	*120.8*	120.8	118.7	115.6	109.9	105.8	99.1	96.5
7.5°	163.1	162.1	160.5	*159.0*	159.0	153.8	148.6	144.0	136.8	127.5	124.4
10°	211.1	209.0	207.0	*203.9*	200.3	195.6	188.9	181.2	171.4	161.5	155.4
12.5°	258.1	257.5	256.5	*251.9*	245.2	241.0	233.8	223.0	210.6	197.2	192.0
15°	312.3	309.7	308.1	*304.5*	300.4	292.1	280.3	269.9	255.5	236.9	230.7
17.5°	362.3	361.3	358.2	*357.2*	350.4	341.7	328.3	312.8	295.2	278.2	268.9
20°	417.0	419.6	416.0	*412.9*	401.0	392.3	379.9	364.9	343.7	319.5	309.7
22.5°	477.9	480.5	474.8	*474.8*	465.0	450.6	433.0	415.5	389.2	363.9	351.5
25°	548.6	549.7	540.9	*537.3*	530.1	515.6	494.4	473.8	443.4	411.4	396.9
27.5°	615.7	617.8	612.6	*608.0*	596.1	582.2	559.0	534.7	500.1	461.9	445.9
30°	691.6	687.5	685.4	*677.2*	664.8	650.3	624.5	597.7	557.9	513.0	493.4
32.5°	758.7	755.6	757.2	*750.4*	732.4	716.4	692.1	659.6	613.2	566.2	544.0
35°	827.9	829.4	827.3	*820.1*	809.3	788.1	755.1	718.4	672.0	616.8	593.0
37.5°	898.6	895.0	892.4	*886.2*	875.3	851.6	819.1	777.8	724.1	665.8	639.5
40°	959.5	962.1	959.0	*948.6*	938.8	912.5	876.9	829.9	774.7	712.3	681.8
42.5°	1017.3	1016.3	1013.7	*1008.0*	994.6	966.7	931.6	883.6	821.2	752.0	720.0
45°	1063.7	1064.8	1064.8	*1056.5*	1044.1	1018.8	978.6	929.5	863.0	790.2	756.6
47.5°	1108.1	1109.7	1108.6	*1105.0*	1091.6	1061.7	1020.9	970.3	899.6	824.8	787.1
50°	1147.3	1147.3	1146.8	*1143.7*	1130.8	1101.9	1060.1	1005.9	932.6	853.7	816.5
52.5°	1179.9	1179.3	1179.9	*1176.3*	1162.8	1136.5	1093.2	1035.3	962.1	877.9	841.8
55°	1205.7	1204.1	1207.7	*1206.2*	1194.3	1164.9	1119.0	1062.7	986.8	901.2	863.0
57.5°	1226.3	1225.8	1230.4	*1228.9*	1217.0	1187.6	1142.2	1084.9	1007.5	920.3	878.4
60°	1243.3	1242.3	1248.5	*1248.5*	1236.6	1207.2	1162.3	1101.9	1024.0	935.2	892.9
62.5°	1255.2	1255.7	1261.4	*1263.5*	1253.2	1223.2	1176.3	1116.9	1037.4	947.1	904.3
65°	1263.5	1264.5	1271.2	*1275.3*	1265.0	1235.6	1187.1	1127.7	1048.3	956.9	913.0
67.5°	1268.6	1269.2	1278.4	*1282.6*	1274.3	1243.3	1196.4	1135.5	1055.5	963.1	919.7
70°	1270.7	1271.2	1281.5	*1287.7*	1279.5	1248.0	1200.5	1139.6	1060.1	967.2	923.3
72.5°	*1269.2*	*1270.2*	*1281.0*	*1289.3*	*1281.0*	*1250.1*	*1202.1*	*1141.7*	*1061.2*	*971.9*	*924.4*
75°	1264.0	1265.0	1277.4	*1285.7*	1279.5	1247.5	1199.5	1139.6	1059.6	967.7	922.8
77.5°	1255.2	1256.8	1269.7	*1280.0*	1272.8	1242.3	1194.3	1133.9	1053.9	962.6	917.2
80°	1242.3	1242.8	1257.3	*1267.6*	1262.4	1232.0	1184.0	1124.1	1044.6	953.8	909.4
82.5°	1225.8	1227.9	1241.8	*1253.2*	1248.5	1217.0	1170.6	1111.7	1032.8	943.0	898.1
85°	1208.3	1210.3	1223.2	*1235.6*	1229.9	1200.5	1154.1	1095.7	1016.8	928.0	885.2
87.5°	1187.1	1188.6	1201.0	*1213.9*	1208.8	1179.3	1134.4	1077.2	1000.3	914.1	870.2
90°	1163.9	1165.4	1177.3	*1189.7*	1183.0	1155.1	1111.2	1055.0	980.1	895.5	853.2
92.5°	1139.1	1139.6	1153.0	*1159.7*	1156.1	1131.3	1088.0	1033.8	959.0	876.4	836.6
95°	1111.2	1111.2	1124.1	*1131.3*	1125.2	1101.9	1061.2	1007.0	934.2	856.8	816.0
97.5°	1080.8	1081.8	1091.6	*1098.8*	1096.8	1072.5	1033.8	982.2	912.5	835.6	796.9
100°	1049.3	1049.3	1058.1	*1064.3*	1059.6	1040.0	1003.3	955.9	885.2	812.9	775.2
102.5°	1016.3	1015.7	1023.0	*1027.6*	1024.5	1006.4	972.4	925.4	859.3	789.2	753.5
105°	979.6	978.1	985.3	*990.4*	987.3	971.3	942.4	897.0	833.0	765.9	731.9
107.5°	940.4	943.0	947.1	*950.2*	947.6	933.7	906.3	866.1	805.7	741.7	708.6
110°	903.2	904.8	905.3	*908.9*	908.4	897.0	873.8	833.5	776.3	715.9	683.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	865.5	865.0	865.5	*868.1*	868.1	856.8	834.6	799.5	747.3	688.5	659.1
115°	824.8	822.7	823.2	*823.7*	825.8	817.0	797.9	764.9	713.8	661.7	632.8
117.5°	782.4	781.9	780.9	*779.3*	779.3	775.7	759.2	729.8	681.3	629.7	605.4
120°	742.2	740.1	737.5	*736.0*	737.0	732.9	719.5	690.1	647.2	600.8	576.5
122.5°	695.7	697.3	695.7	*693.7*	694.2	690.1	678.7	653.9	611.1	566.7	545.0
125°	656.0	655.5	653.4	*650.3*	650.3	648.8	636.4	614.7	576.5	534.2	514.1
127.5°	611.6	612.1	610.1	*608.5*	609.5	606.4	598.2	573.4	539.9	502.2	482.6
130°	569.8	569.3	568.8	*565.7*	568.3	562.6	555.4	534.7	502.7	470.7	452.6
132.5°	530.6	527.5	525.4	*524.9*	524.4	523.9	515.1	497.0	470.2	438.2	420.6
135°	491.4	488.8	486.2	*485.2*	486.2	483.6	475.9	460.9	436.1	405.2	391.7
137.5°	451.1	450.1	450.1	*447.5*	447.5	445.4	438.7	426.3	403.1	376.3	362.8
140°	415.0	412.9	411.9	*410.3*	411.9	409.8	402.6	390.7	371.1	347.9	335.0
142.5°	377.8	375.7	377.3	*375.7*	374.2	373.2	367.0	357.7	340.6	319.5	308.6
145°	343.2	343.2	342.2	*342.7*	341.7	340.6	334.4	325.7	311.2	291.6	283.9
147.5°	310.7	311.7	310.7	*311.7*	311.7	307.6	303.5	296.3	282.8	267.4	259.1
150°	280.3	281.8	280.8	*280.3*	280.8	278.7	273.0	268.9	257.0	243.6	235.4
152.5°	254.4	255.5	255.5	*254.4*	253.9	252.9	247.2	241.5	232.3	221.9	216.3
155°	230.2	230.2	230.7	*231.2*	229.7	226.6	224.5	219.9	211.6	202.3	196.6
157.5°	210.1	209.5	210.1	*209.5*	209.0	205.9	202.8	199.2	192.5	184.3	181.2
160°	191.0	191.0	191.5	*191.0*	188.9	187.4	184.8	181.7	176.0	170.3	166.2
162.5°	175.5	175.5	175.5	*175.0*	172.9	172.4	169.3	166.2	161.5	156.9	153.8
165°	162.1	162.1	161.5	*161.5*	160.5	159.0	156.4	153.8	149.7	146.1	144.0
167.5°	151.2	150.7	150.2	*149.7*	149.2	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	133.2	130.1	129.0
172.5°	133.7	133.7	133.7	*133.7*	132.1	131.6	130.1	128.5	127.0	124.9	123.9
175°	127.5	127.5	127.5	*127.5*	126.5	125.4	124.9	123.4	122.3	120.8	120.3
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	72.3	68.6	64.0	59.4	56.8	55.2	54.2
5°	93.9	87.2	81.0	74.3	69.2	64.5	59.4	55.2	53.2	52.6
7.5°	119.7	110.5	101.2	92.9	85.7	78.5	73.3	69.2	66.6	66.6
10°	150.7	137.8	127.0	116.1	106.3	97.5	90.3	86.2	83.1	82.1
12.5°	185.8	170.3	155.4	143.0	128.5	118.7	109.9	104.3	100.6	100.1
15°	222.5	206.5	187.4	170.3	154.3	138.8	128.5	120.3	117.2	117.2
17.5°	257.5	236.9	215.7	195.1	175.5	157.4	143.0	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	190.5	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	159.0
27.5°	427.4	383.5	341.7	301.4	262.2	229.2	200.8	181.2	170.3	169.8
30°	472.3	423.7	376.3	329.8	287.0	247.2	215.7	193.0	181.2	179.6
32.5°	517.2	463.5	409.8	358.7	309.2	266.3	230.7	204.4	190.5	189.4
35°	563.6	502.7	444.4	385.5	333.9	285.4	244.6	215.7	200.8	198.7
37.5°	607.0	541.4	477.4	415.0	355.6	303.0	258.1	226.6	209.5	207.0
40°	646.7	576.0	507.4	440.3	376.3	319.5	271.0	235.9	216.8	214.7
42.5°	683.4	608.5	534.7	462.4	395.4	333.9	281.8	243.6	222.5	220.4
45°	717.9	639.0	560.0	483.1	411.9	347.4	292.1	250.8	228.1	225.0
47.5°	747.3	664.8	580.1	500.6	426.8	358.7	299.9	256.0	232.3	229.2
50°	773.7	686.4	599.2	517.7	439.7	369.0	307.1	260.1	234.3	231.2
52.5°	794.8	706.6	615.7	531.1	451.6	377.3	312.3	263.7	236.4	233.3
55°	815.5	723.1	630.2	543.0	460.4	385.0	316.4	265.8	237.4	233.8
57.5°	832.5	737.0	642.1	552.3	469.2	390.2	320.0	266.8	237.4	233.3
60°	844.9	747.9	651.4	560.0	474.8	394.8	322.6	267.4	236.9	232.8
62.5°	855.7	756.6	658.1	566.7	480.5	398.4	325.2	267.9	235.9	231.7
65°	864.0	763.9	663.7	570.8	484.1	401.5	325.7	267.4	234.3	230.2
67.5°	870.7	768.5	667.4	574.4	486.7	403.1	326.7	266.8	233.3	228.6
70°	873.3	770.6	669.4	576.0	488.3	404.1	326.7	265.8	231.2	226.6
72.5°	*872.8*	*770.6*	*669.9*	*576.5*	*488.8*	*404.6*	*326.2*	*264.3*	*229.7*	*225.0*
75°	871.2	769.0	668.9	576.0	488.3	404.1	325.7	263.2	228.1	224.0
77.5°	867.1	764.9	665.3	573.9	487.2	402.6	324.1	262.2	227.1	221.9
80°	859.9	758.7	660.1	569.3	483.6	401.0	322.6	260.1	225.0	220.9
82.5°	849.5	751.0	653.9	565.2	480.5	397.9	320.5	259.1	224.0	219.9
85°	837.7	741.2	645.7	559.0	475.9	394.8	317.9	257.0	223.0	218.8
87.5°	823.2	728.3	637.4	551.7	470.2	390.7	315.4	255.5	222.5	218.3
90°	808.3	716.4	627.1	545.0	465.5	386.6	312.8	254.4	221.9	218.3
92.5°	791.7	703.5	617.3	536.3	459.4	382.4	310.2	253.4	221.9	218.3
95°	775.2	690.1	607.5	528.5	453.2	378.3	307.6	252.9	223.0	219.4
97.5°	755.6	674.6	595.6	520.3	445.9	373.7	305.5	252.4	223.5	220.4
100°	737.0	659.1	583.2	511.0	439.2	368.5	302.4	251.9	224.5	220.9
102.5°	716.9	644.1	570.8	501.2	432.0	362.8	299.9	251.4	225.5	222.5
105°	696.8	626.1	557.4	489.8	423.2	357.2	296.8	250.8	226.1	223.0
107.5°	674.6	609.0	542.4	479.0	414.4	351.0	292.6	249.8	226.6	223.5
110°	651.9	588.9	527.0	466.6	404.1	343.2	288.5	247.2	226.1	223.5

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

Scaled Data Report

REPORT NUMBER: P1223882
CATALOG NUMBER: FFX-CLB-60-722-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	630.2	569.8	509.9	452.6	393.3	335.5	282.8	244.6	224.5	222.5
115°	603.4	548.1	491.9	437.7	380.9	325.7	276.6	241.0	222.5	219.9
117.5°	578.6	525.4	472.8	421.7	368.0	315.9	269.4	236.4	218.8	216.8
120°	550.7	501.2	452.1	403.6	353.5	304.5	260.6	230.7	214.2	212.6
122.5°	523.4	477.4	431.0	385.0	338.1	291.6	251.9	223.5	209.0	207.5
125°	494.4	452.1	408.8	365.4	321.0	278.2	241.5	215.2	202.3	200.8
127.5°	465.0	425.8	385.0	344.8	304.5	264.8	230.7	207.0	194.6	194.1
130°	434.1	399.0	361.8	324.6	287.5	250.8	219.4	198.2	186.8	185.8
132.5°	406.2	373.7	339.1	304.0	268.9	236.9	208.5	188.9	179.1	178.1
135°	378.8	346.3	316.4	285.4	252.9	223.0	197.7	180.1	171.4	170.3
137.5°	351.0	322.6	294.7	265.8	236.4	209.5	187.4	171.9	164.1	163.1
140°	323.1	299.4	274.1	246.7	221.4	197.2	177.0	164.1	156.9	155.9
142.5°	297.8	275.1	252.4	228.6	205.9	185.3	167.7	155.4	149.2	148.6
145°	273.0	253.4	232.8	211.6	192.0	175.0	159.0	148.6	143.5	143.0
147.5°	250.8	233.3	214.7	196.6	179.6	163.6	150.7	141.9	136.8	136.3
150°	228.6	213.2	197.7	182.2	167.7	154.3	143.0	135.7	132.1	131.1
152.5°	209.0	196.6	182.7	169.8	156.9	145.5	136.8	130.1	127.0	126.5
155°	191.5	181.2	169.8	158.5	148.1	138.8	131.1	125.9	123.4	123.4
157.5°	176.5	167.7	158.5	149.2	140.9	133.2	127.0	122.8	120.8	120.3
160°	163.1	155.4	148.1	141.4	133.7	128.0	123.4	119.7	118.2	117.7
162.5°	150.7	145.5	139.9	134.2	128.5	123.9	120.3	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	123.4	121.3	119.2	117.2	116.1	115.1	114.6	114.6
172.5°	122.8	121.3	119.7	118.7	117.2	116.1	115.1	114.6	114.6	114.6
175°	119.7	118.7	117.7	117.2	116.6	116.1	115.6	115.1	115.1	115.1
177.5°	117.7	117.2	117.2	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: SP1-2501-332-2

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

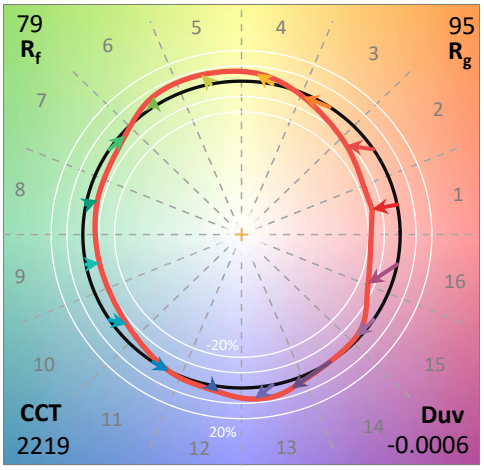
Test Information

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

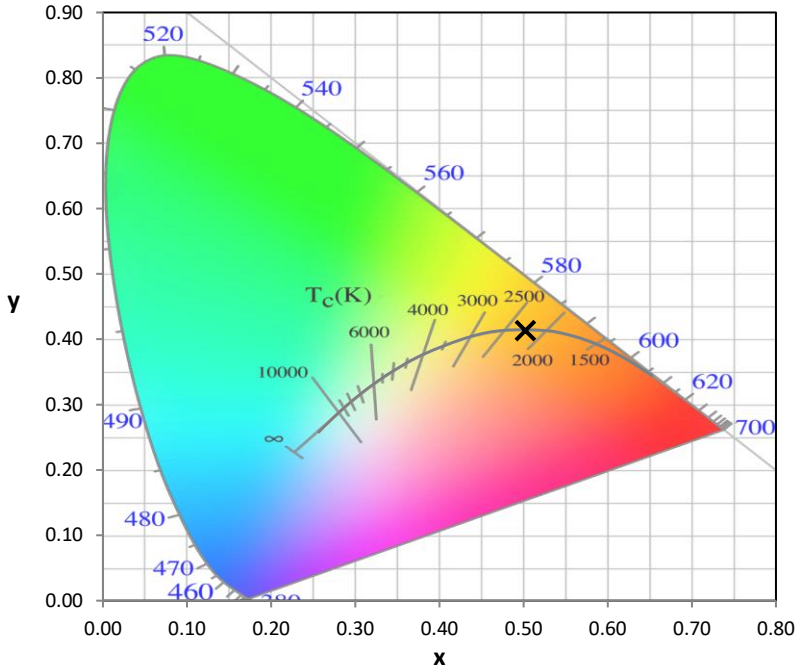
Stabilization Time:	61M
Operation Time:	2H 1M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-2

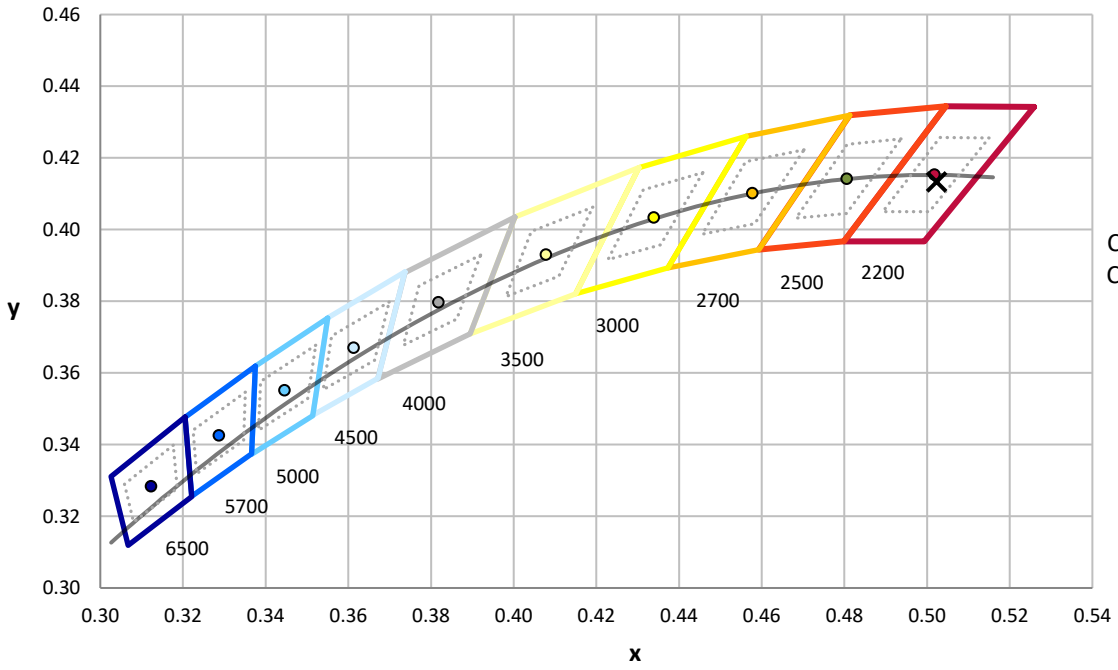
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

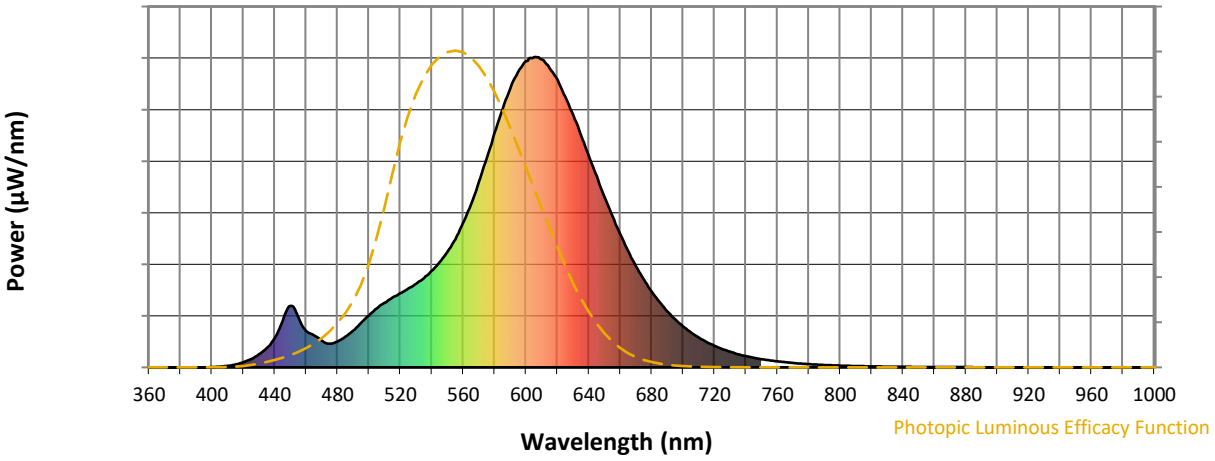


CCT = 2219K
CIE x = 0.5023
CIE y = 0.4133
Duv = -0.0006

Point lies inside the ANSI 2200K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-2

Photopic Flux vs. Wavelength

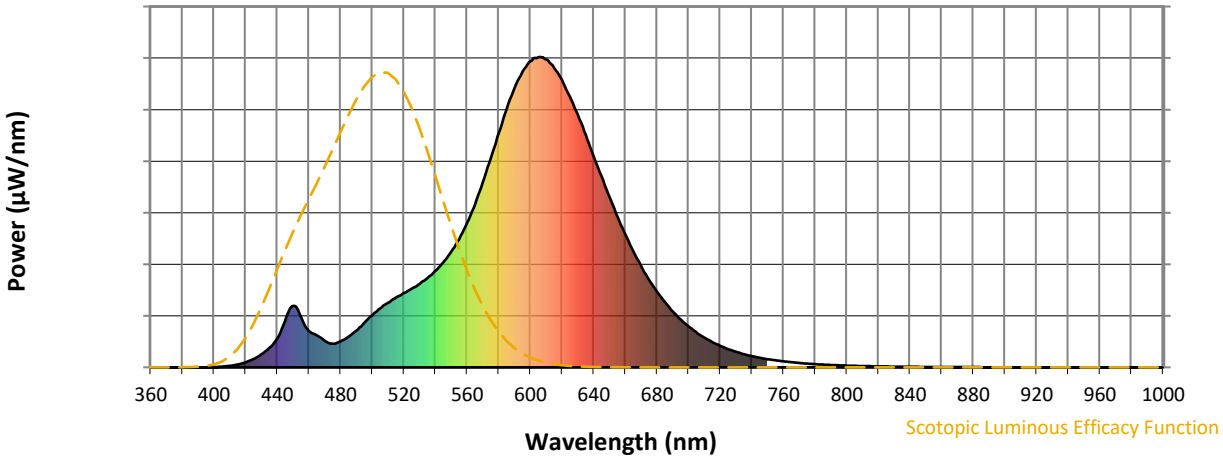


Photopic Lumens: NR

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

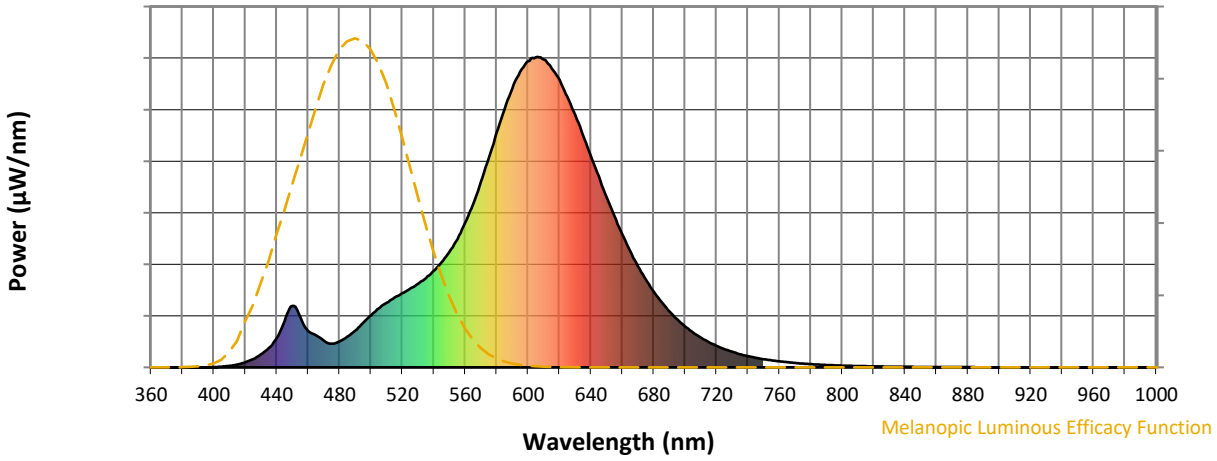


Scotopic Lumens: NR **S/P: 0.94**

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			

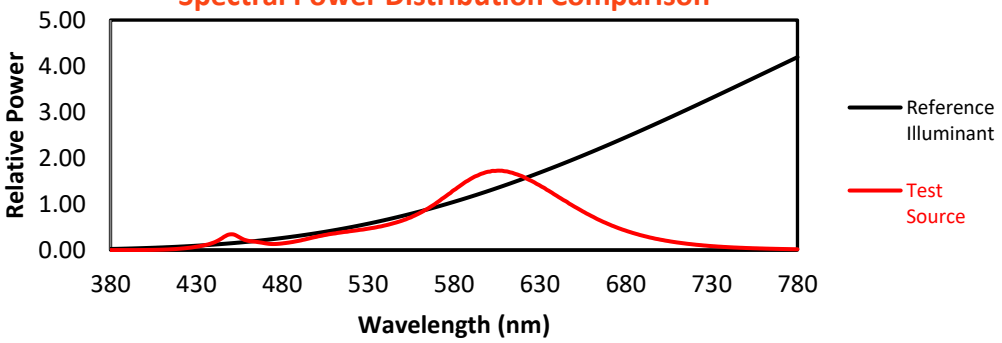
REPORT NUMBER: SP1-2501-332-2

TM-30-18

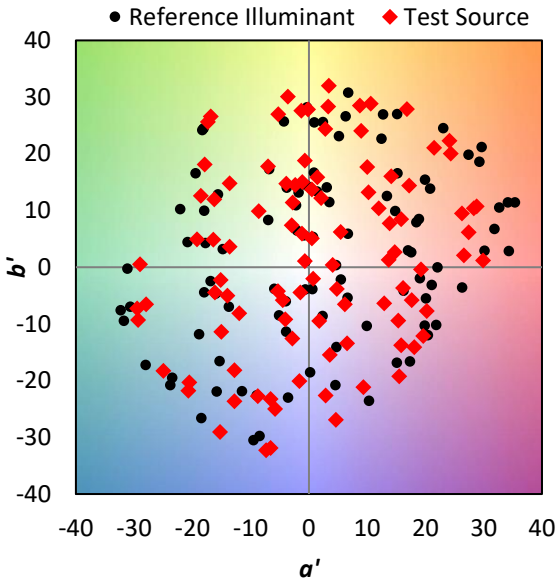
Summary

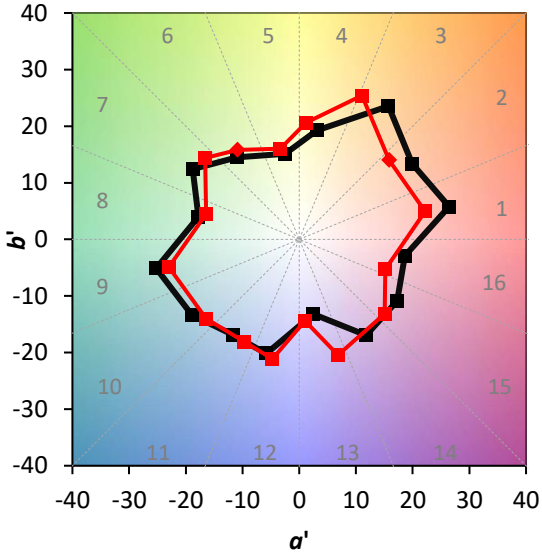
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R_g = 94.5
CIE R_a = 73.3
R_9 = -25.6

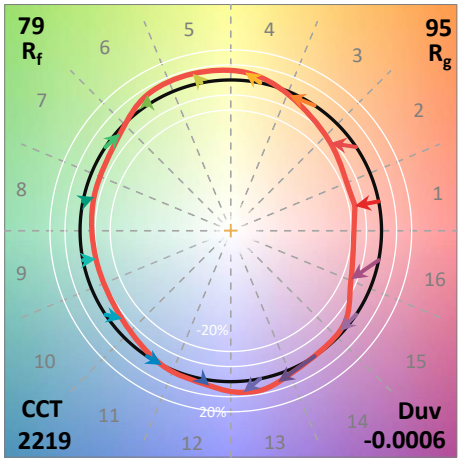
Spectral Power Distribution Comparison

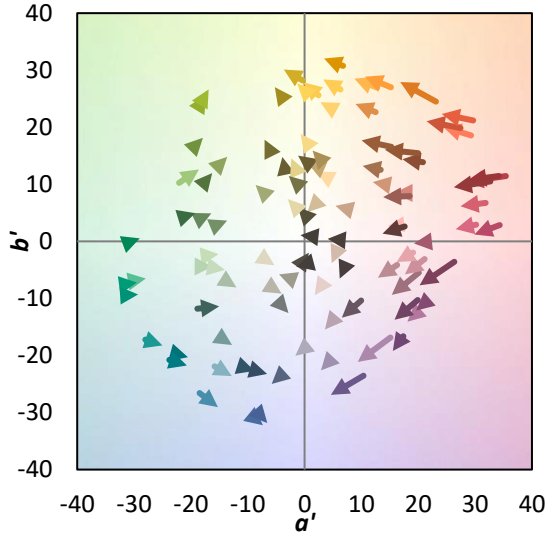


Color Vector Graphics







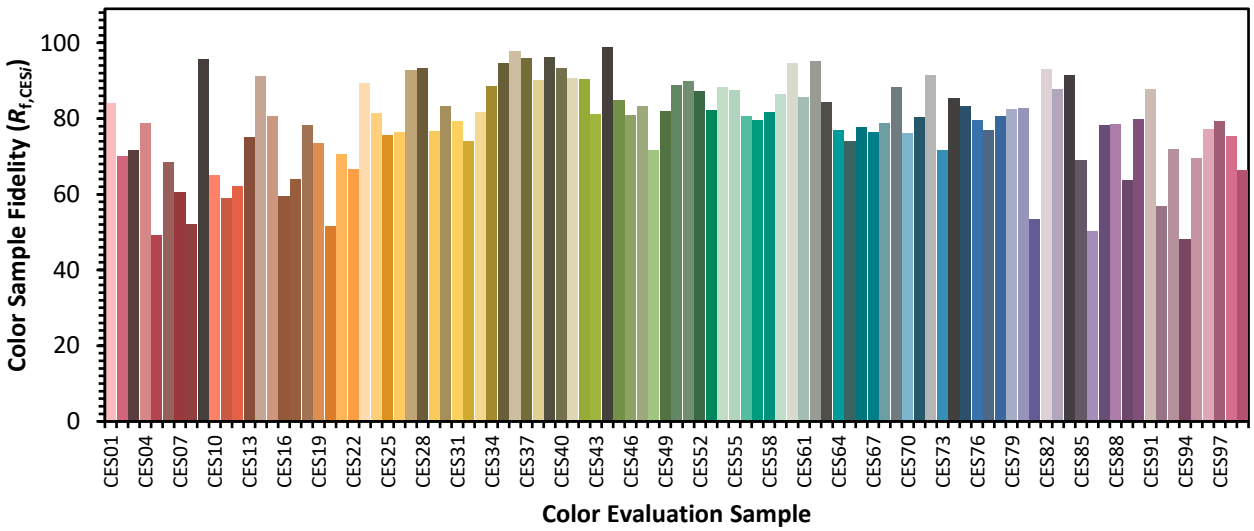


REPORT NUMBER: SP1-2501-332-2

TM-30-18

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

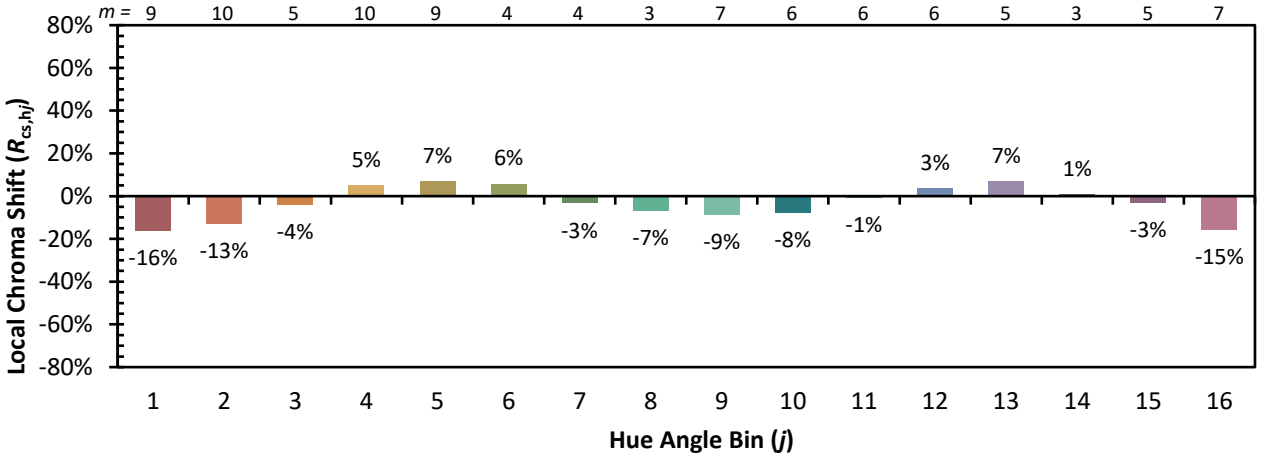
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CES02 = 65	CES27 = 93	CES52 = 87	CES77 = 77
CES03 = 32	CES28 = 93	CES53 = 82	CES78 = 81
CES04 = 72	CES29 = 77	CES54 = 88	CES79 = 83
CES05 = 52	CES30 = 83	CES55 = 88	CES80 = 83
CES06 = 52	CES31 = 79	CES56 = 81	CES81 = 53
CES07 = 44	CES32 = 74	CES57 = 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	

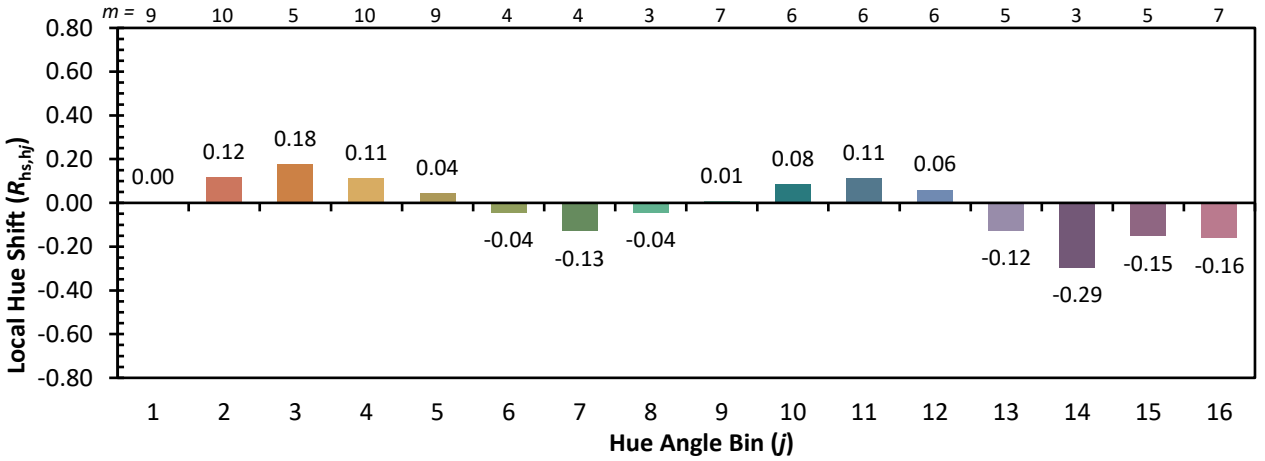


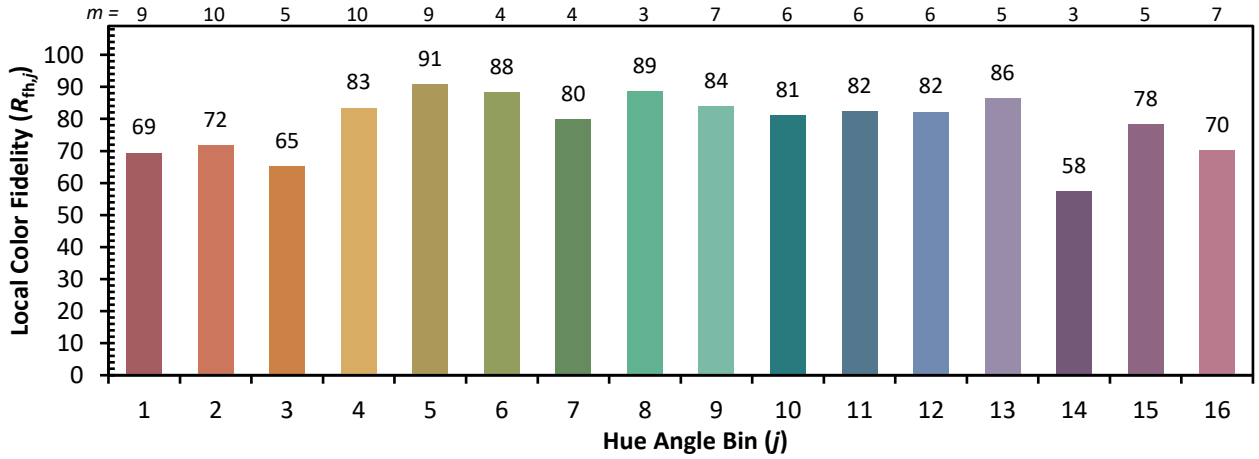
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Color Rendition by Hue-Angle Bin



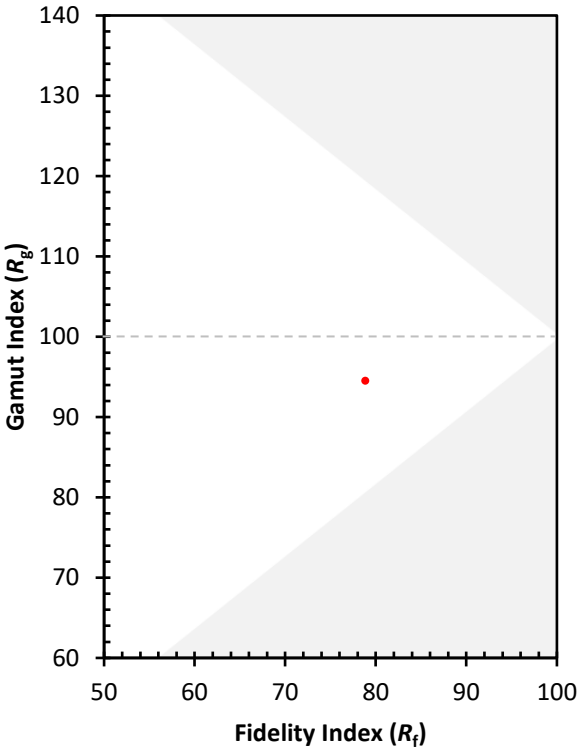


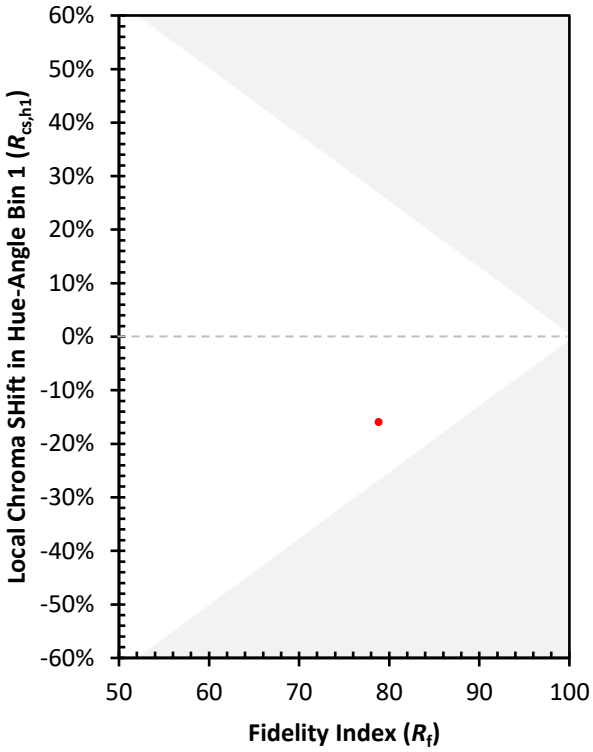


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Measure Comparisons





(END OF REPORT)