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: P1045889

Luminaire Tested: **FFX-CLB-60-730-U-VM9-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045889
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-730-U-VM9-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6431.3 lumens
Efficiency:	N/A
Efficacy:	106.1 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):	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

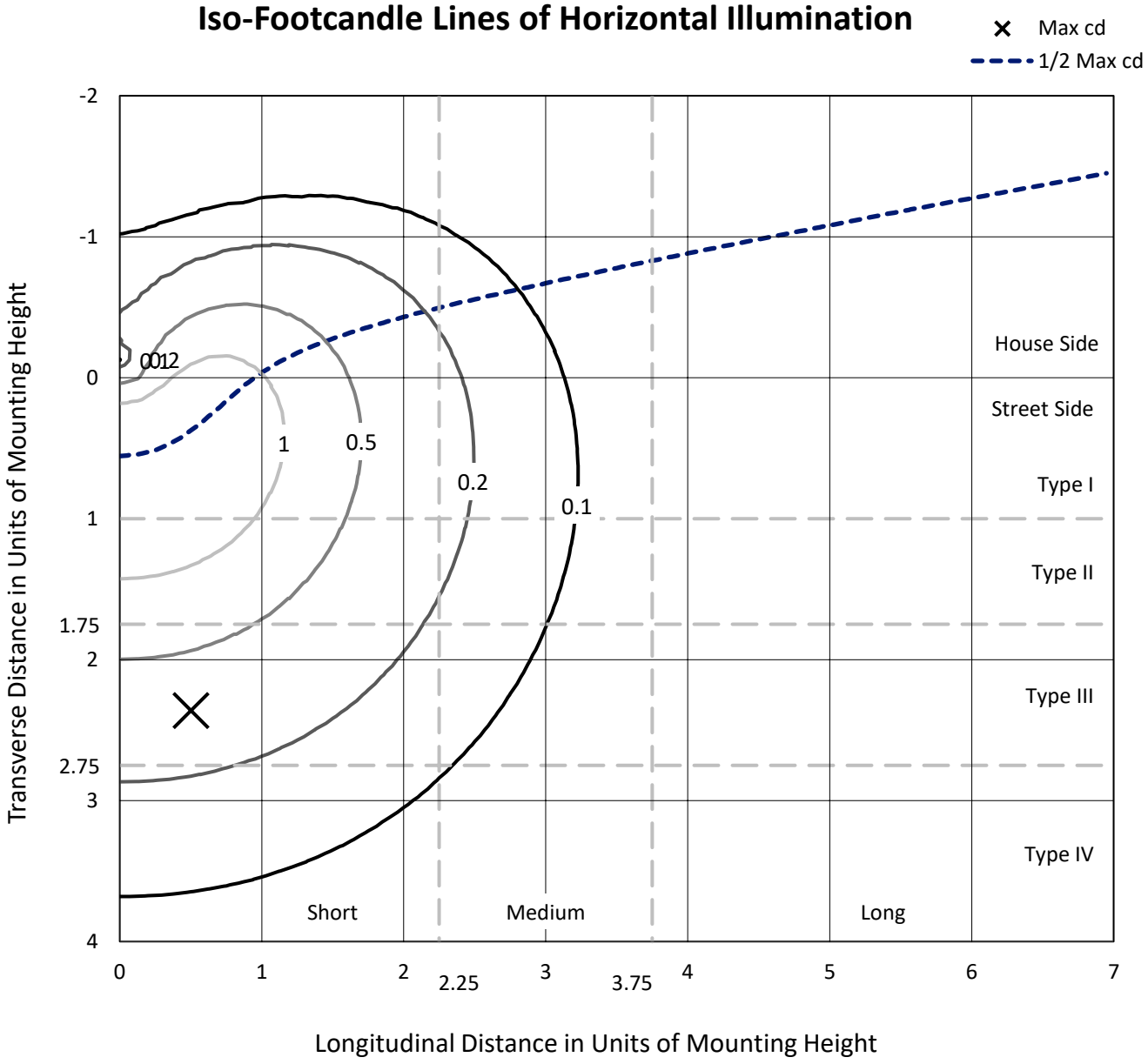


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Iso-Footcandle Lines of Horizontal Illumination



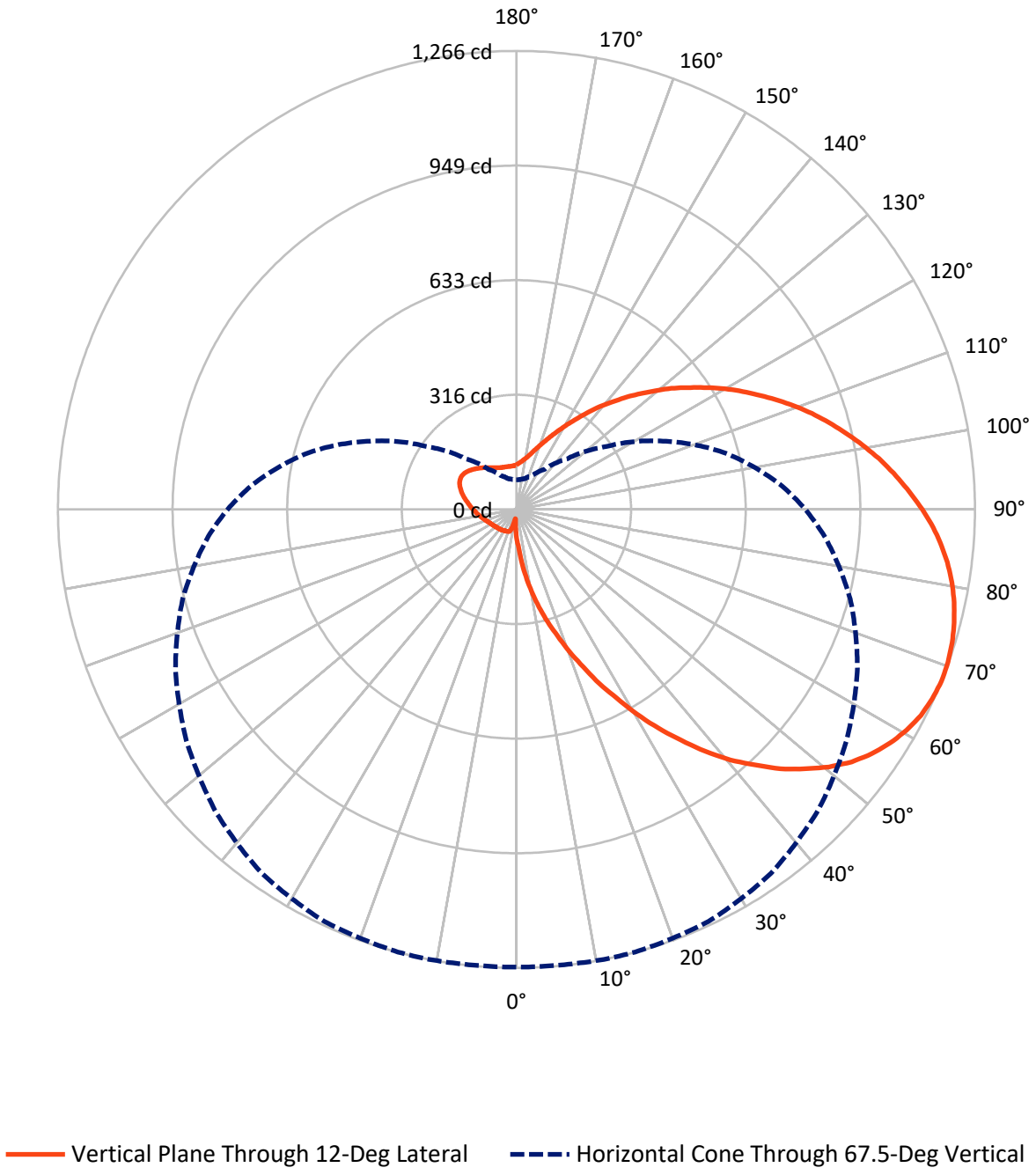
Based on 15 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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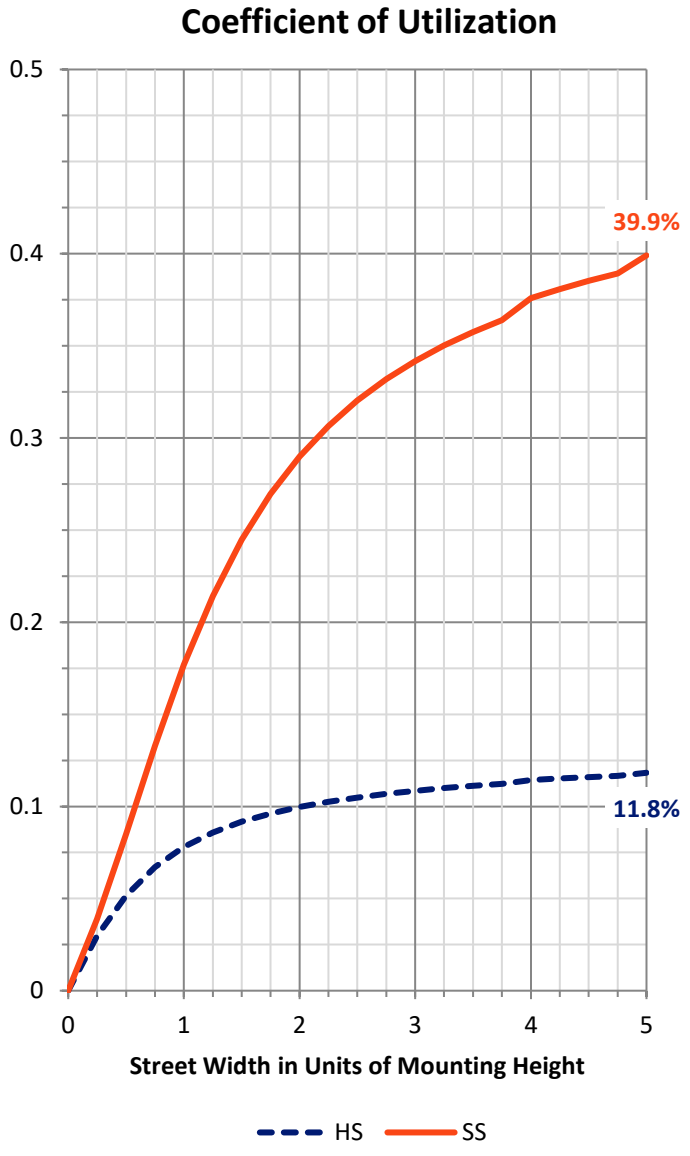
REPORT NUMBER: P1045889
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.6	801.1	1628.7
	% Fixture	12.9	12.5	25.3
Street Side	Lumens	2926.2	1876.4	4802.6
	% Fixture	45.5	29.2	74.7
Total	Lumens	3753.9	2677.4	6431.3
	% Fixture	58.4	41.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.2
10°-20°	57.2	0.9
20°-30°	149.2	2.3
30°-40°	289.7	4.5
40°-50°	454.9	7.1
50°-60°	603.7	9.4
60°-70°	703.6	10.9
70°-80°	747.5	11.6
80°-90°	738.0	11.5
90°-100°	680.5	10.6
100°-110°	593.9	9.2
110°-120°	488.2	7.6
120°-130°	369.6	5.7
130°-140°	252.5	3.9
140°-150°	154.7	2.4
150°-160°	84.9	1.3
160°-170°	41.0	0.6
170°-180°	12.1	0.2
0°-90°	3753.9	58.4
0°-180°	6431.3	100.0



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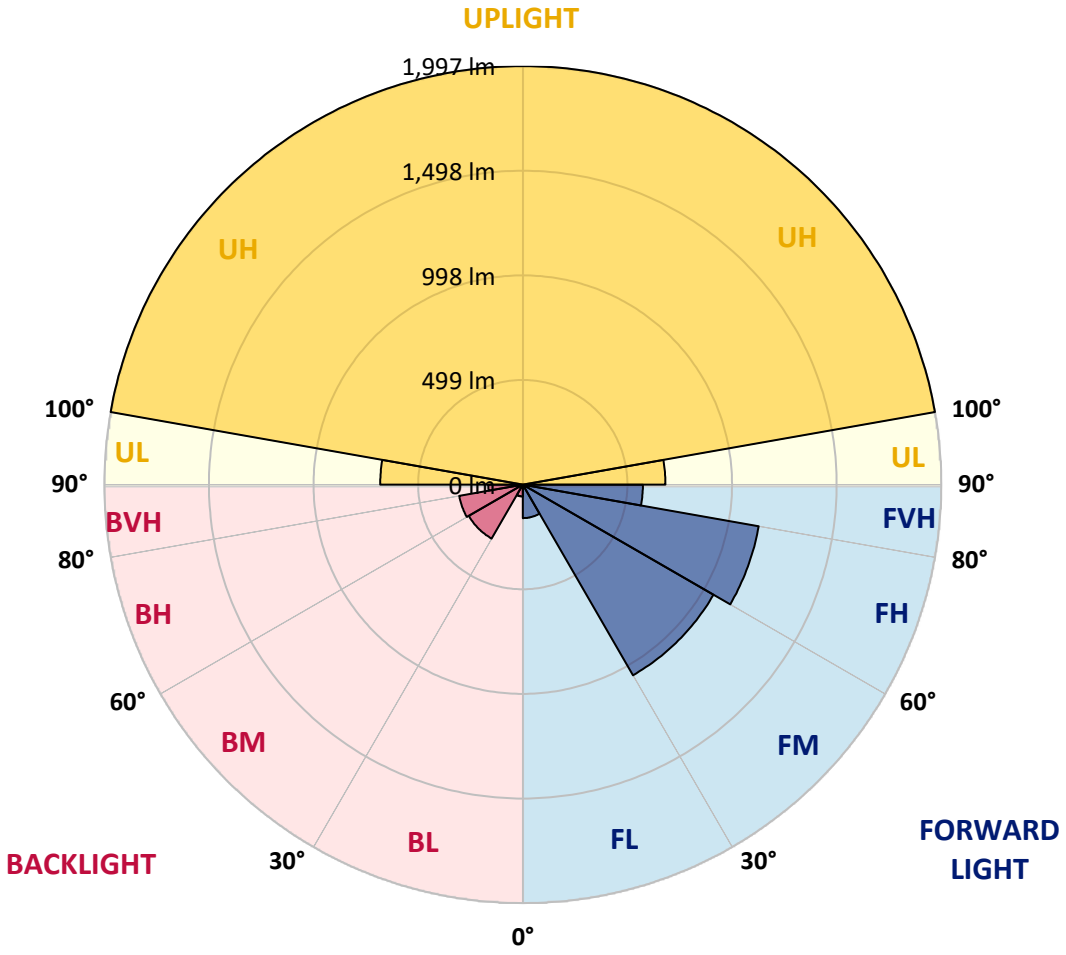
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	159.8	2.5			
FM	(30°-60°)	1050.7	16.3			
FH	(60°-80°)	1142.9	17.8			G1/1800
FVH	(80°-90°)	572.8	8.9			G4/750
BL	(0°-30°)	56.7	0.9	B0/110		
BM	(30°-60°)	297.5	4.6	B1/1000		
BH	(60°-80°)	308.2	4.8	B1/500		G1/500
BVH	(80°-90°)	165.2	2.6			G2/225
UL	(90°-100°)	680.5	10.6		U4/1000	
UH	(100°-180°)	1996.9	31.1		U5	

BUG Rating: B1-U5-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	81.4	81.4	*81.4*	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2.5°	101.9	104.0	*101.9*	104.7	103.3	103.3	99.8	96.2	91.3	85.6	80.7
5°	144.3	143.6	*140.8*	143.6	140.8	137.3	131.6	122.4	113.2	104.7	94.1
7.5°	188.2	188.9	*186.8*	186.1	179.7	174.8	165.6	156.4	145.0	132.3	119.6
10°	235.6	234.2	*230.6*	231.4	224.3	214.4	203.8	193.1	180.4	165.6	149.3
12.5°	279.5	279.5	*276.6*	277.3	269.6	258.2	249.8	235.6	220.0	202.3	182.5
15°	326.2	323.3	*321.9*	321.9	314.1	304.2	295.0	279.5	261.1	241.3	218.6
17.5°	369.3	368.6	*367.2*	367.9	360.8	352.3	337.5	321.9	300.0	275.9	252.6
20°	424.5	421.7	*419.6*	416.0	411.8	400.4	386.3	365.8	343.8	317.7	286.5
22.5°	474.7	478.3	*472.6*	469.8	464.1	454.9	434.4	414.6	388.4	358.0	324.0
25°	532.8	535.6	*533.5*	529.9	522.1	509.4	490.3	468.4	437.2	402.6	362.2
27.5°	593.6	595.7	*590.1*	591.5	578.0	566.0	546.9	520.0	490.3	449.3	406.8
30°	653.7	658.0	*655.9*	650.9	639.6	629.0	606.3	578.0	544.1	498.8	450.0
32.5°	724.5	719.5	*720.2*	714.6	707.5	690.5	670.7	638.9	599.3	551.1	495.3
35°	790.3	788.2	*782.5*	785.3	773.3	757.7	733.0	699.0	655.9	602.8	541.2
37.5°	849.0	851.1	*847.6*	845.5	837.7	820.0	791.0	756.3	706.8	650.9	583.7
40°	909.1	910.6	*909.9*	909.9	899.2	879.4	849.7	810.8	759.9	699.7	626.9
42.5°	966.5	967.9	*964.3*	965.0	956.5	936.0	904.2	863.2	806.6	743.6	664.3
45°	1021.6	1021.6	*1021.6*	1020.9	1008.9	989.8	957.3	910.6	854.0	782.5	699.0
47.5°	1072.6	1071.2	*1070.5*	1070.5	1062.7	1040.0	1005.4	954.4	892.9	817.9	733.0
50°	1117.9	1118.6	*1117.9*	1116.4	1104.4	1086.0	1047.1	994.0	929.0	851.8	761.3
52.5°	1156.8	1157.5	*1158.2*	1154.7	1146.9	1124.9	1081.8	1025.2	959.4	878.7	784.6
55°	1187.9	1189.3	*1190.7*	1189.3	1181.5	1155.4	1112.2	1054.9	984.1	901.4	805.1
57.5°	1216.9	1216.2	*1216.9*	1215.5	1207.0	1181.5	1137.0	1075.4	1004.0	919.8	820.7
60°	1236.7	1237.4	*1237.4*	1237.4	1227.5	1201.3	1153.9	1091.0	1018.1	933.9	834.2
62.5°	1250.2	1250.9	*1253.0*	1251.6	1242.4	1214.8	1166.0	1102.3	1028.7	943.1	843.3
65°	1259.4	1260.1	*1261.5*	1260.1	1251.6	1223.3	1173.8	1109.4	1035.8	950.2	849.7
67.5°	*1263.6*	*1263.6*	*1265.7*	*1265.0*	*1255.1*	*1226.1*	*1176.6*	*1112.2*	*1038.6*	*953.7*	*854.0*
70°	1261.5	1262.2	*1263.6*	1262.9	1253.0	1224.0	1174.5	1110.8	1037.9	953.7	854.7
72.5°	1256.5	1256.5	*1257.9*	1256.5	1247.3	1218.3	1169.5	1106.5	1034.4	952.3	854.0
75°	1246.6	1247.3	*1248.0*	1247.3	1237.4	1209.1	1161.0	1098.8	1028.7	947.4	851.1
77.5°	1234.6	1235.3	*1235.3*	1235.3	1224.7	1196.4	1149.7	1088.9	1020.9	941.7	846.2
80°	1216.9	1217.6	*1219.0*	1217.6	1207.0	1181.5	1134.8	1076.8	1011.0	932.5	839.8
82.5°	1197.1	1196.4	*1198.5*	1197.8	1187.2	1161.7	1115.7	1060.6	996.2	921.9	830.6
85°	1172.3	1172.3	*1173.8*	1172.3	1163.1	1136.3	1093.1	1040.7	979.2	906.3	819.3
87.5°	1144.7	1144.7	*1146.2*	1143.3	1132.7	1109.4	1068.3	1017.4	960.8	890.8	806.6
90°	1112.2	1113.6	*1113.6*	1111.5	1100.9	1078.2	1040.7	991.9	936.7	871.6	791.7
92.5°	1081.1	1081.1	*1079.7*	1079.7	1068.3	1045.7	1011.0	966.5	914.8	852.5	775.4
95°	1047.8	1047.8	*1045.7*	1044.3	1033.0	1013.9	980.6	939.6	890.0	832.7	759.2
97.5°	1012.4	1011.7	*1010.3*	1008.9	997.6	979.2	949.5	909.9	864.6	810.1	741.5
100°	976.4	977.1	*972.1*	971.4	960.1	944.5	916.2	879.4	837.7	786.7	722.4
102.5°	936.7	938.2	*933.9*	933.2	921.9	904.9	882.3	849.0	811.5	764.8	703.3
105°	901.4	897.8	*895.7*	894.3	884.4	868.8	844.8	818.6	783.2	739.3	682.0
107.5°	861.0	861.7	*857.5*	854.7	844.8	832.0	810.8	786.7	755.6	713.9	661.5
110°	820.7	819.3	*817.2*	815.8	804.4	793.1	774.7	754.9	724.5	688.4	639.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	779.0	779.7	*776.1*	774.0	766.2	754.2	740.8	721.7	695.5	661.5	615.5
115°	740.1	738.6	*735.8*	734.4	725.9	716.7	703.3	689.1	665.8	633.2	591.5
117.5°	700.4	697.6	*696.9*	694.8	688.4	679.2	668.6	656.6	633.9	605.6	566.0
120°	659.4	659.4	*658.0*	656.6	648.1	640.3	633.9	621.2	602.1	575.2	541.2
122.5°	621.2	620.5	*617.7*	615.5	611.3	604.2	596.4	586.5	569.5	545.5	512.9
125°	579.4	580.9	*578.7*	578.0	571.0	567.4	560.3	554.0	536.3	514.4	485.3
127.5°	544.8	542.7	*542.7*	539.1	535.6	532.0	526.4	517.9	505.9	483.2	456.3
130°	508.0	506.6	*504.5*	504.5	500.2	495.3	491.7	484.6	471.2	452.8	427.3
132.5°	471.2	469.8	*468.4*	466.2	463.4	462.7	459.2	451.4	438.7	422.4	400.4
135°	436.5	435.8	*435.1*	435.1	430.9	428.7	424.5	418.1	409.6	394.8	373.6
137.5°	404.0	401.9	*400.4*	400.4	399.0	395.5	392.0	387.0	377.8	365.8	346.7
140°	370.0	371.4	*371.4*	370.7	367.9	365.8	361.5	357.3	348.1	338.2	321.9
142.5°	341.7	341.0	*339.6*	338.9	337.5	334.7	332.5	327.6	321.9	311.3	297.2
145°	311.3	311.3	*310.6*	311.3	308.5	307.8	304.9	300.7	294.3	285.1	273.1
147.5°	284.4	284.4	*283.7*	284.4	282.3	280.2	278.1	275.2	269.6	262.5	251.9
150°	259.7	260.4	*258.9*	258.9	258.2	256.1	254.7	250.5	246.2	240.6	231.4
152.5°	237.0	237.7	*237.0*	236.3	235.6	234.2	232.1	229.2	225.0	220.0	212.3
155°	217.9	217.2	*217.2*	217.2	216.5	214.4	214.4	210.1	205.9	202.3	194.6
157.5°	199.5	199.5	*199.5*	199.5	198.1	197.4	196.0	192.4	190.3	185.4	179.7
160°	184.7	184.0	*184.0*	184.0	182.5	181.8	179.7	178.3	175.5	171.2	167.0
162.5°	169.8	170.5	*170.5*	170.5	169.1	168.4	167.0	165.6	163.4	159.2	156.4
165°	158.5	158.5	*158.5*	157.8	157.1	157.1	154.9	154.2	152.1	149.3	147.2
167.5°	149.3	149.3	*148.6*	149.3	147.9	146.5	145.7	144.3	142.9	141.5	139.4
170°	141.5	141.5	*141.5*	141.5	140.8	140.1	138.7	138.0	136.5	135.1	133.0
172.5°	135.1	135.1	*135.1*	135.1	134.4	133.7	132.3	131.6	130.9	129.5	128.1
175°	130.2	130.2	*130.2*	130.2	129.5	128.8	127.4	127.4	126.6	125.9	124.5
177.5°	126.6	126.6	*125.9*	125.9	125.2	124.5	124.5	123.8	123.8	123.1	122.4
180°	122.4	122.4	*122.4*	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
2.5°	77.8	75.0	70.0	65.8	60.8	57.3	53.8	53.1	53.1	54.5	54.5
5°	89.9	83.5	73.6	64.4	53.8	46.0	38.9	32.5	28.3	26.2	26.2
7.5°	112.5	107.5	92.7	79.9	67.2	55.2	43.9	34.0	26.9	21.9	21.2
10°	141.5	133.7	116.0	99.8	82.8	67.9	54.5	42.5	34.0	29.7	29.7
12.5°	172.6	162.0	140.8	121.0	101.2	82.1	66.5	54.5	46.0	41.7	40.3
15°	205.9	193.9	168.4	142.9	118.9	98.3	80.7	65.8	57.3	53.1	52.4
17.5°	237.0	223.6	194.6	164.1	136.5	111.8	90.6	75.0	64.4	59.4	58.7
20°	271.0	253.3	219.3	184.0	151.4	121.7	97.6	79.2	66.5	60.8	60.1
22.5°	305.6	285.1	244.8	203.8	164.8	130.9	102.6	81.4	67.2	60.8	60.1
25°	342.4	319.8	272.4	225.0	179.7	140.1	107.5	83.5	68.6	60.8	60.1
27.5°	381.3	355.9	301.4	247.6	194.6	149.3	112.5	86.3	69.3	61.6	60.1
30°	423.1	394.1	331.1	269.6	208.7	157.8	116.7	87.7	70.0	61.6	60.8
32.5°	464.8	429.5	363.7	290.8	223.6	165.6	121.0	89.9	70.8	62.3	61.6
35°	505.2	470.5	393.4	312.7	237.7	173.3	124.5	91.3	72.2	63.0	61.6
37.5°	546.2	508.7	421.7	333.2	250.5	179.7	127.4	92.7	72.9	63.7	62.3
40°	585.1	541.2	449.3	353.0	261.1	185.4	129.5	93.4	73.6	64.4	63.0
42.5°	621.9	575.2	475.4	370.0	271.7	189.6	131.6	94.8	74.3	65.1	64.4
45°	653.0	604.9	498.1	387.0	279.5	193.1	133.0	95.5	75.0	65.8	65.1
47.5°	683.5	631.8	519.3	400.4	287.2	196.7	133.7	96.2	75.7	67.2	66.5
50°	710.3	655.9	538.4	412.5	292.9	198.1	134.4	96.9	77.1	68.6	67.9
52.5°	733.0	676.4	553.3	422.4	297.2	199.5	134.4	96.9	77.8	70.0	69.3
55°	751.4	694.1	566.7	429.5	300.0	200.2	134.4	97.6	79.2	71.5	70.8
57.5°	766.9	707.5	577.3	435.8	302.8	200.2	134.4	98.3	80.7	72.9	72.2
60°	778.3	718.8	585.1	440.1	303.5	199.5	134.4	99.1	82.1	75.0	74.3
62.5°	787.5	726.6	591.5	442.9	303.5	198.1	134.4	99.8	83.5	77.1	76.4
65°	793.8	732.3	595.7	444.3	302.8	197.4	134.4	101.2	85.6	79.2	78.5
67.5°	*797.4*	*736.5*	*598.6*	*445.7*	*302.1*	*197.4*	*135.1*	*103.3*	*87.7*	*82.1*	*81.4*
70°	798.8	737.2	599.3	445.0	301.4	196.0	135.8	104.7	90.6	84.9	84.2
72.5°	798.8	737.9	599.3	445.0	300.0	196.7	136.5	106.8	93.4	87.7	87.0
75°	796.7	735.8	598.6	443.6	299.3	196.0	138.7	109.7	96.2	91.3	90.6
77.5°	792.4	733.0	596.4	441.5	298.6	196.7	140.1	112.5	99.8	94.8	94.8
80°	787.5	728.7	593.6	439.4	297.9	198.1	142.2	116.0	103.3	99.1	98.3
82.5°	779.7	722.4	588.6	436.5	296.4	198.8	145.0	119.6	107.5	102.6	102.6
85°	769.1	713.2	582.3	433.0	295.0	200.2	147.9	122.4	111.8	106.8	106.8
87.5°	757.7	703.3	574.5	428.7	294.3	201.6	151.4	126.6	115.3	111.1	110.4
90°	744.3	691.2	566.7	423.8	293.6	203.8	154.2	130.9	120.3	116.0	115.3
92.5°	730.1	679.2	558.2	420.3	292.9	205.9	158.5	135.8	125.2	121.0	120.3
95°	716.0	666.5	549.7	415.3	292.9	208.7	162.7	140.8	130.2	125.9	125.2
97.5°	699.7	652.3	539.8	411.1	292.9	212.3	167.7	145.7	135.1	130.9	130.9
100°	682.7	638.2	529.9	406.8	293.6	215.8	172.6	151.4	140.8	136.5	136.5
102.5°	665.8	622.6	520.7	403.3	295.0	220.7	179.0	157.8	147.2	142.9	142.2
105°	647.4	607.0	510.1	398.3	296.4	225.0	184.7	163.4	152.8	148.6	148.6
107.5°	629.0	590.8	499.5	394.8	297.9	229.2	191.0	169.8	159.2	154.2	154.2
110°	608.5	573.1	488.2	390.5	299.3	234.2	196.0	175.5	164.1	159.9	159.2

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

Scaled Data Report

REPORT NUMBER: P1045889
CATALOG NUMBER: FFX-CLB-60-730-U-VM9-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	587.2	555.4	476.2	384.9	300.0	238.4	201.6	181.1	169.8	164.8	164.1
115°	564.6	535.6	462.7	379.2	300.0	242.0	205.9	185.4	174.0	169.1	168.4
117.5°	542.0	514.4	447.9	371.4	299.3	244.1	209.4	188.2	176.9	171.9	171.2
120°	517.9	493.1	433.0	363.7	296.4	244.8	210.8	190.3	178.3	173.3	172.6
122.5°	493.1	470.5	415.3	353.0	292.2	244.1	210.8	190.3	178.3	172.6	171.9
125°	466.2	446.4	396.9	340.3	285.8	241.3	209.4	188.9	176.9	171.2	169.8
127.5°	440.1	422.4	377.8	327.6	278.1	237.0	206.6	186.1	174.0	168.4	167.7
130°	414.6	396.9	358.0	313.4	268.9	231.4	201.6	181.8	170.5	164.1	163.4
132.5°	387.7	371.4	338.2	298.6	258.2	224.3	196.7	177.6	165.6	160.6	159.2
135°	360.8	348.1	317.7	283.0	247.6	216.5	191.0	172.6	161.3	155.7	155.7
137.5°	336.8	324.0	297.2	267.4	236.3	207.3	184.0	167.0	156.4	151.4	150.7
140°	312.0	302.1	278.1	251.9	224.3	198.8	178.3	162.0	152.1	147.2	146.5
142.5°	288.7	278.8	259.7	235.6	212.3	189.6	171.2	156.4	147.2	142.9	142.2
145°	265.3	258.2	239.8	220.7	200.2	180.4	163.4	150.7	142.9	138.7	138.7
147.5°	244.8	238.4	222.2	205.9	188.2	171.9	157.1	145.7	138.7	135.1	134.4
150°	225.0	219.3	205.9	192.4	176.2	162.7	150.0	140.8	134.4	131.6	130.9
152.5°	206.6	202.3	191.0	179.7	166.3	154.2	144.3	136.5	130.9	128.1	128.1
155°	191.0	187.5	177.6	167.7	157.1	147.2	138.7	132.3	128.1	125.9	125.2
157.5°	177.6	173.3	165.6	157.8	149.3	140.8	134.4	128.8	125.9	123.8	123.8
160°	164.8	161.3	154.9	149.3	142.2	135.8	130.2	126.6	123.8	122.4	122.4
162.5°	154.2	151.4	146.5	141.5	136.5	131.6	127.4	124.5	122.4	121.0	121.0
165°	145.0	143.6	139.4	135.8	131.6	128.1	125.2	123.1	121.7	121.0	121.0
167.5°	138.0	136.5	133.7	130.9	128.1	125.2	123.1	121.7	121.0	120.3	120.3
170°	132.3	130.9	129.5	127.4	125.2	123.1	121.7	121.0	120.3	120.3	120.3
172.5°	128.1	126.6	125.9	124.5	123.1	121.7	121.0	120.3	120.3	120.3	120.3
175°	124.5	123.8	123.1	122.4	121.7	121.0	120.3	120.3	120.3	120.3	120.3
177.5°	122.4	121.7	121.7	121.0	121.0	120.3	120.3	121.0	121.0	121.0	121.7
180°	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4

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

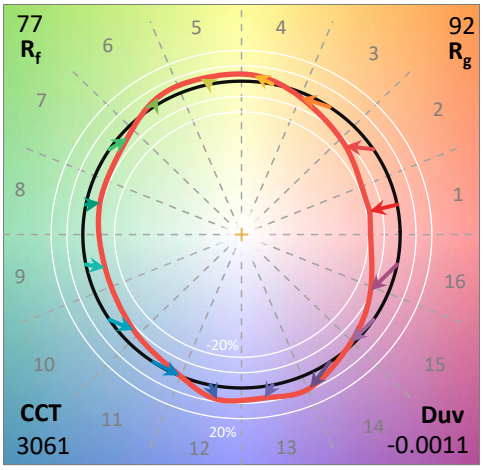
Test Information

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

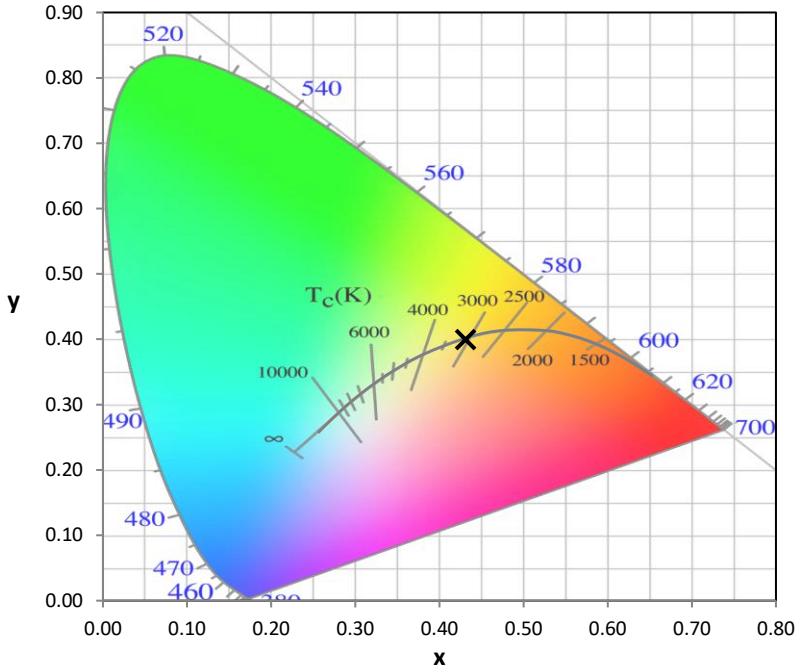
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

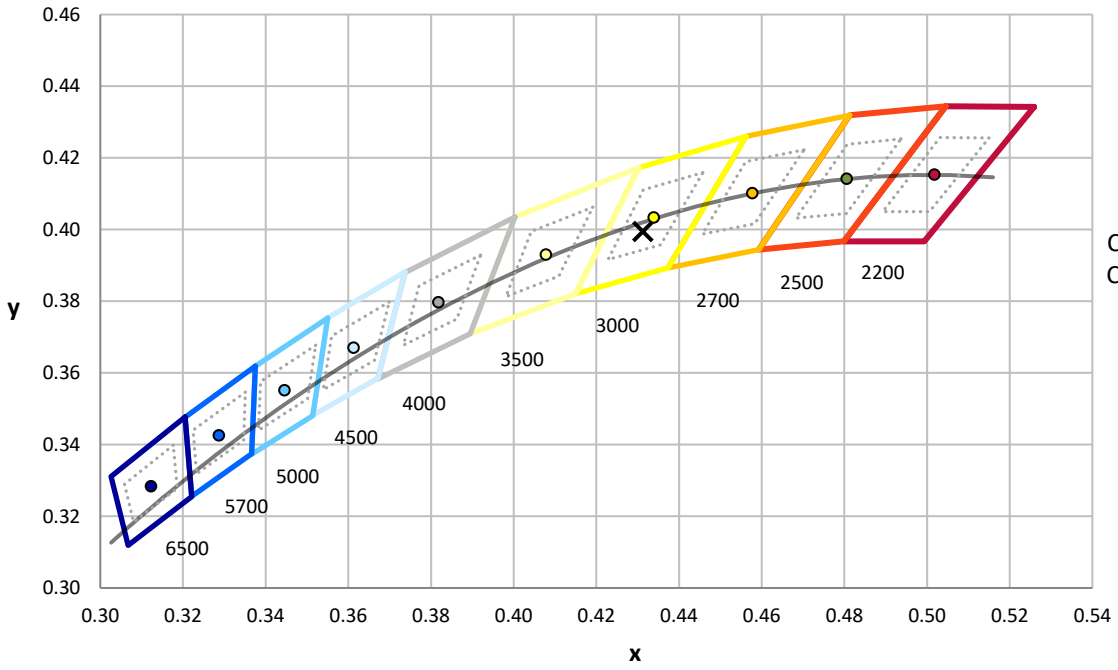
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

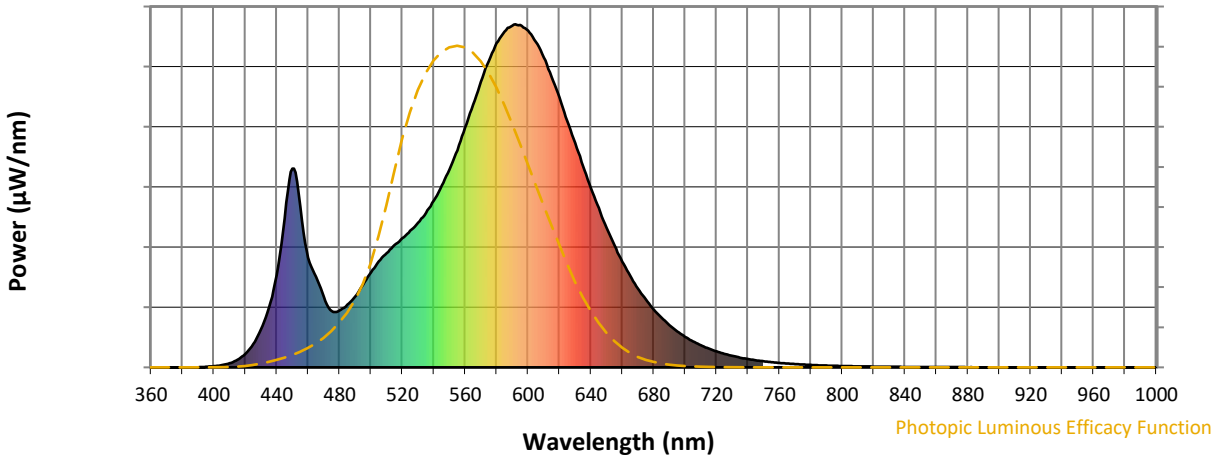


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

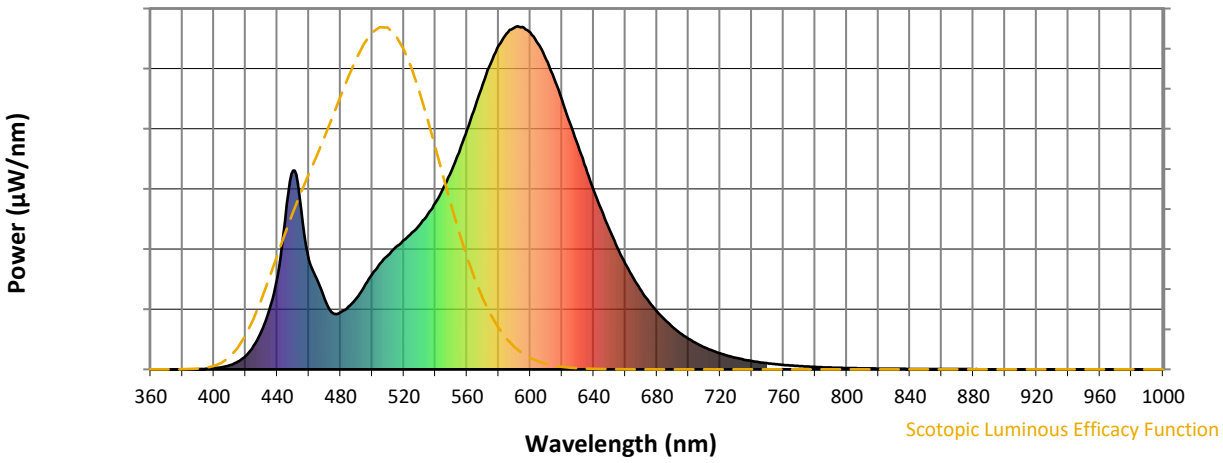


Photopic Lumens: NR

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

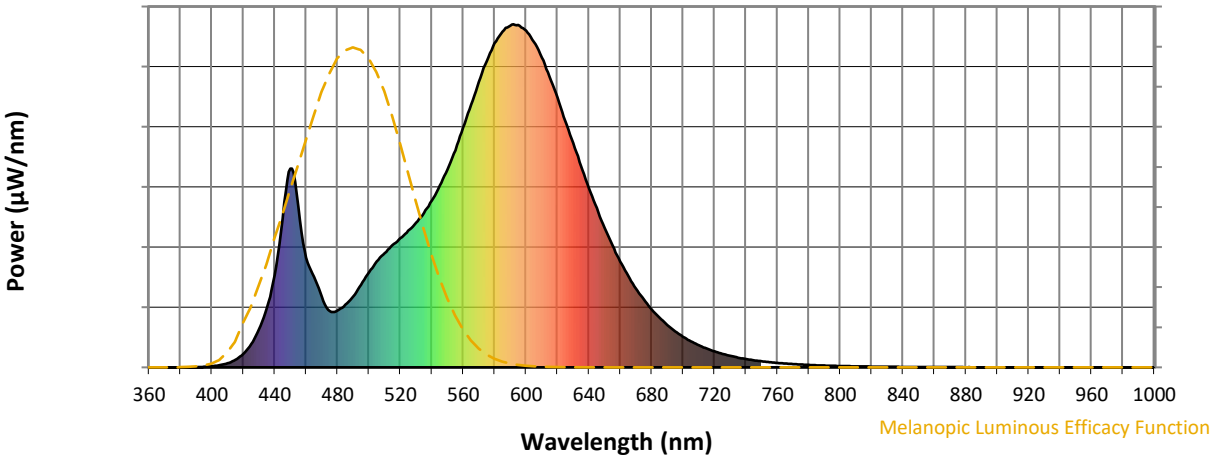


Scotopic Lumens: NR **S/P: 1.29**

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			

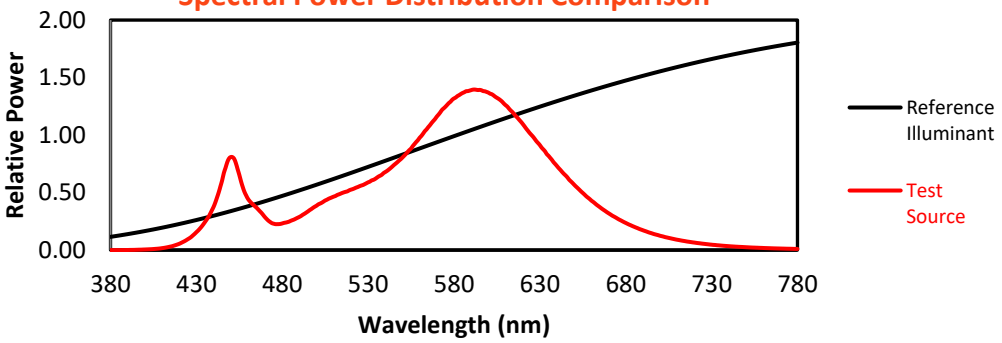
REPORT NUMBER: SP1-2501-332-4

TM-30-18

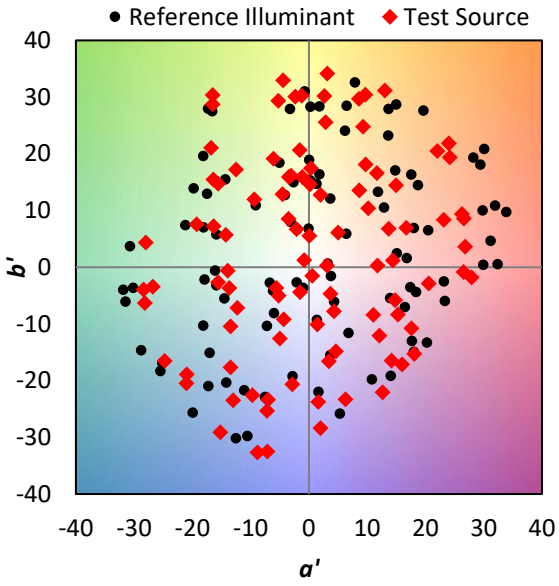
Summary

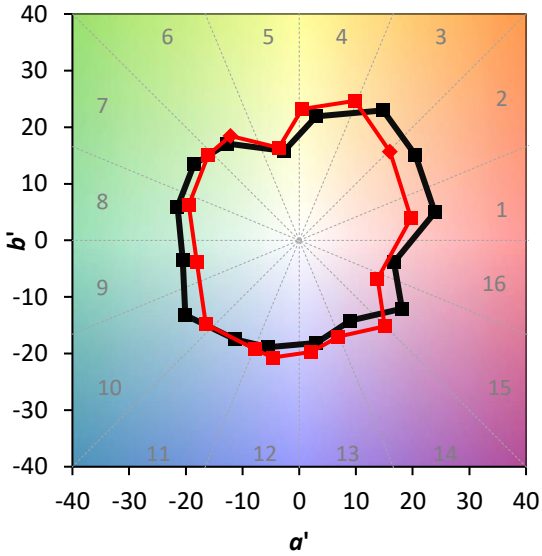
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R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

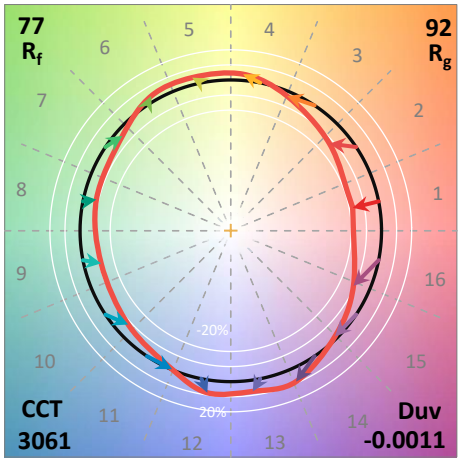
Spectral Power Distribution Comparison

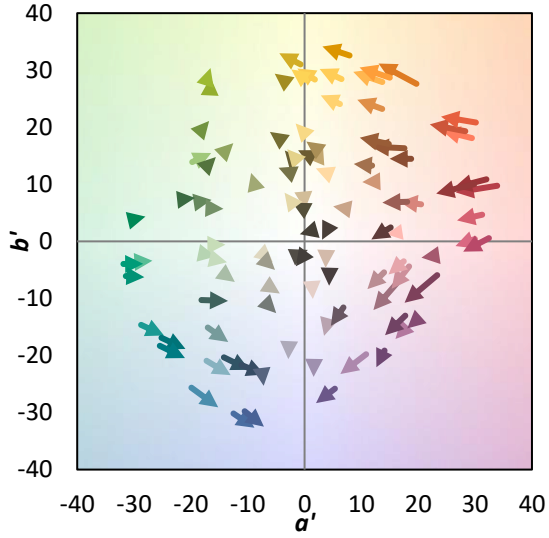


Color Vector Graphics







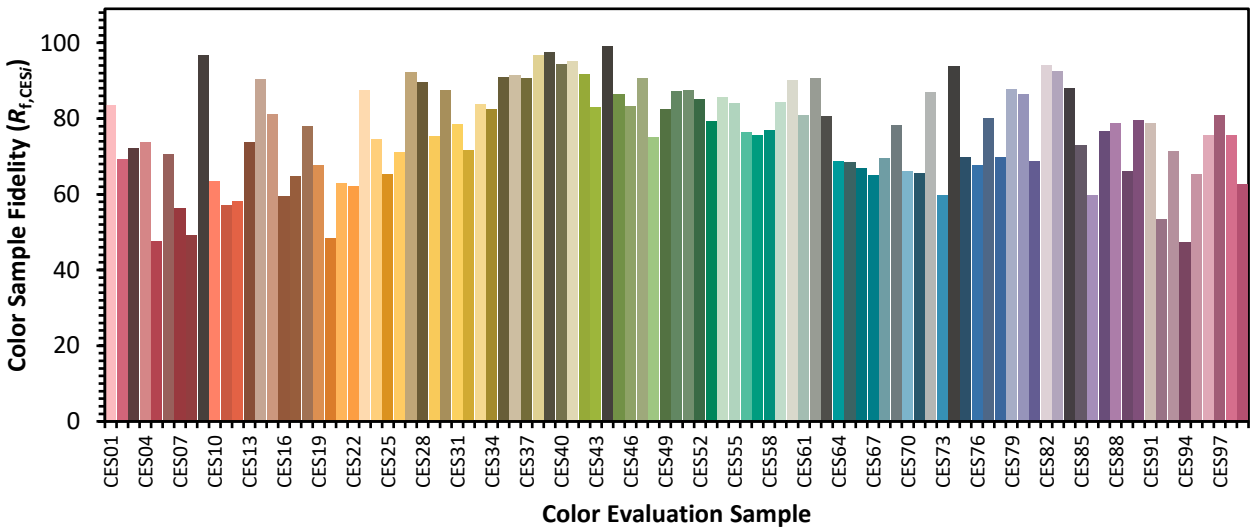


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

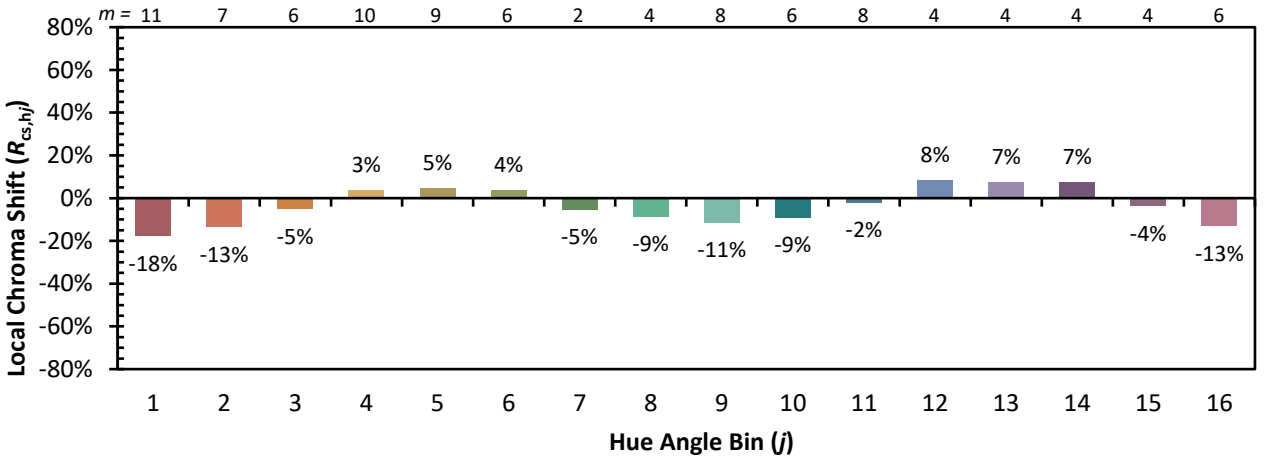
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CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57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

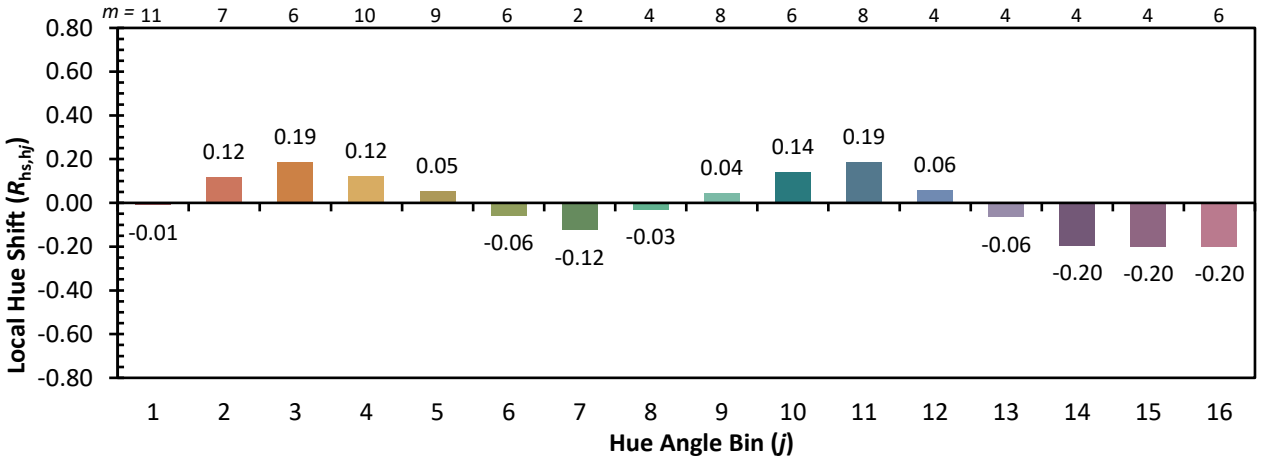


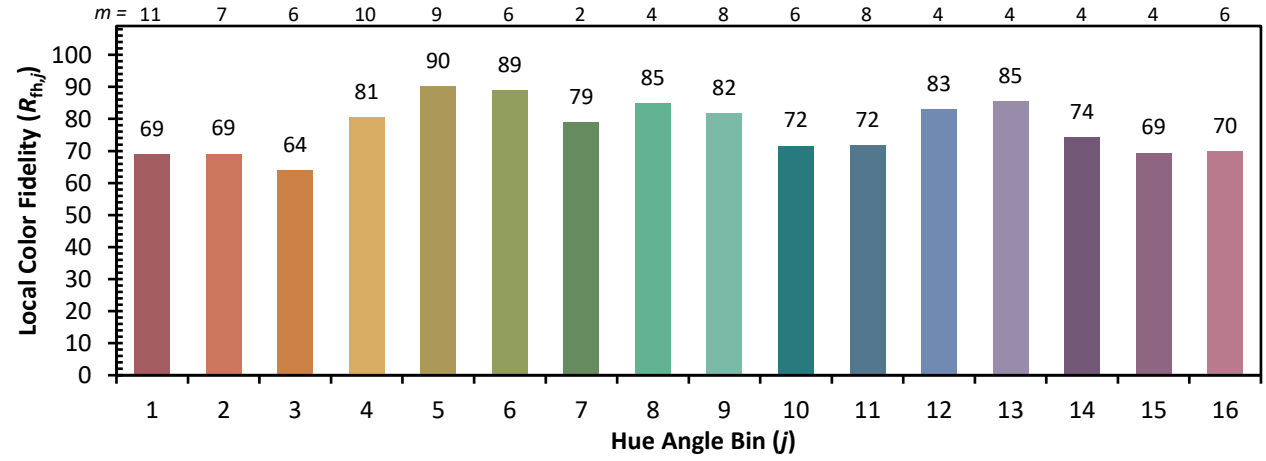
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Color Rendition by Hue-Angle Bin



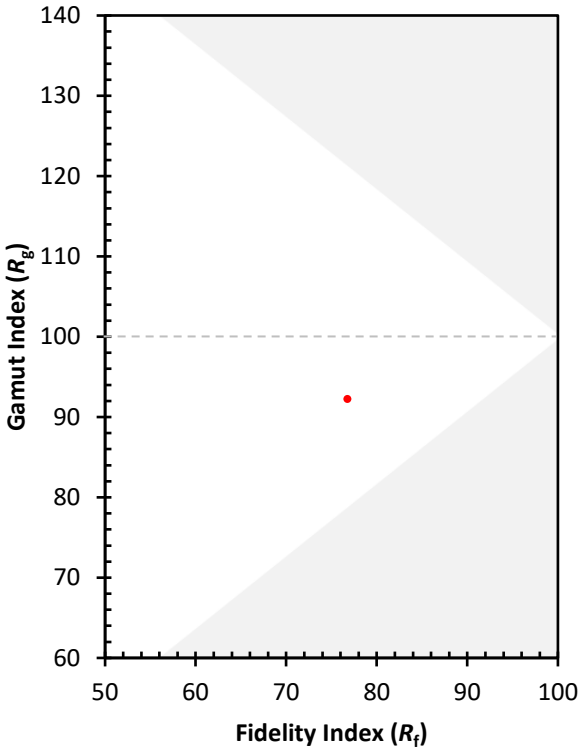


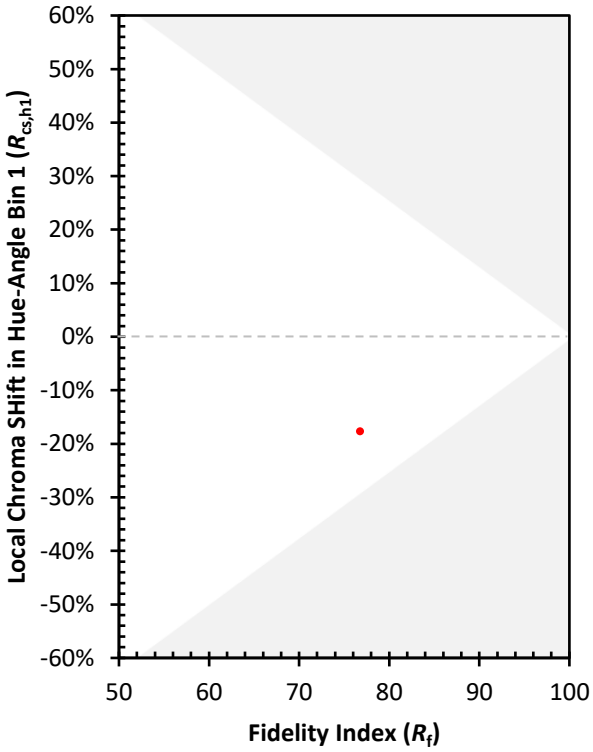


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Measure Comparisons





(END OF REPORT)