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: P1224000

Luminaire Tested: **FFX-CLB-50-740-U-VM8-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:	P1224000
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-50-740-U-VM8-T4
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8051.1 lumens
Efficiency:	N/A
Efficacy:	159.1 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

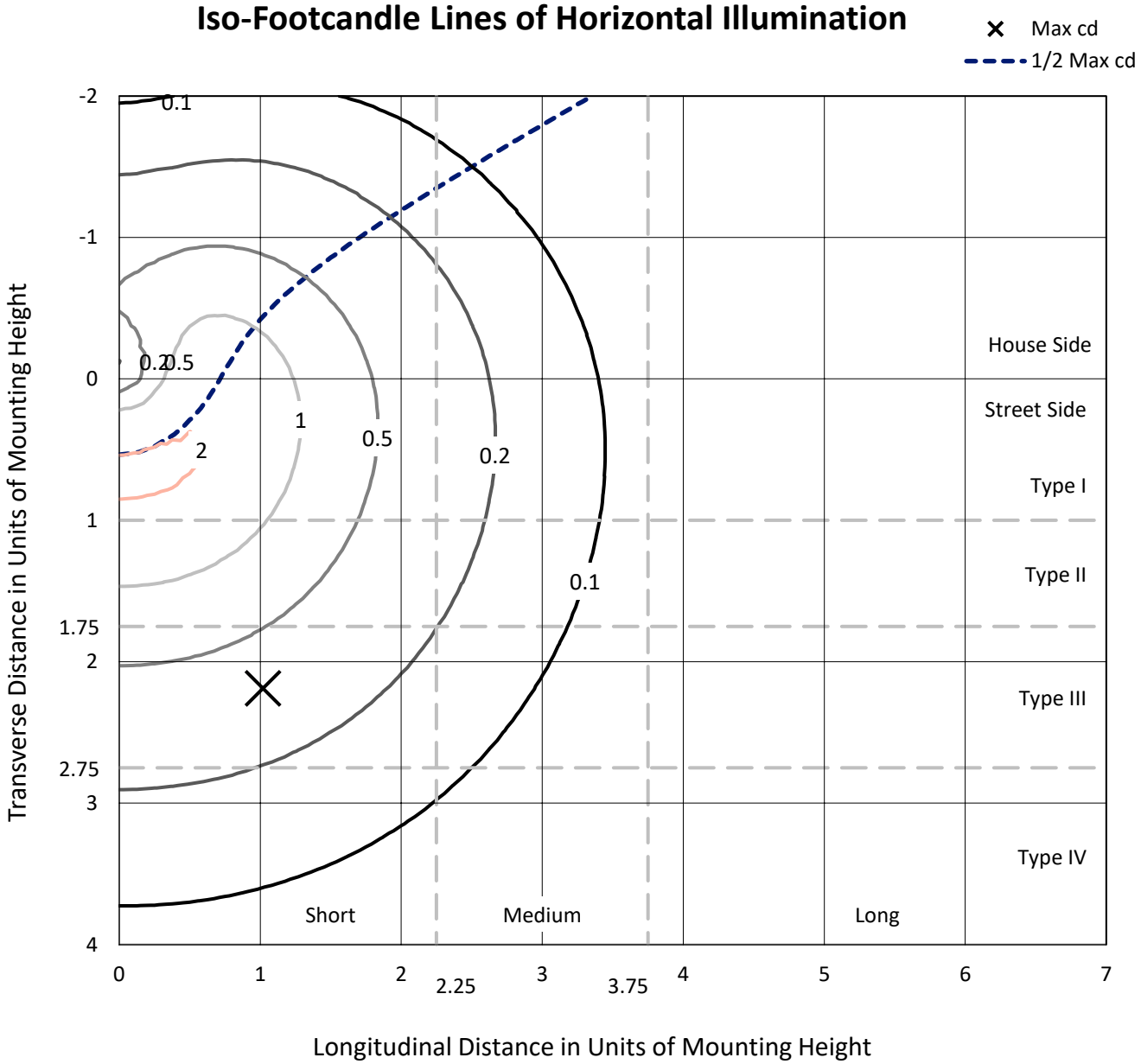


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Iso-Footcandle Lines of Horizontal Illumination



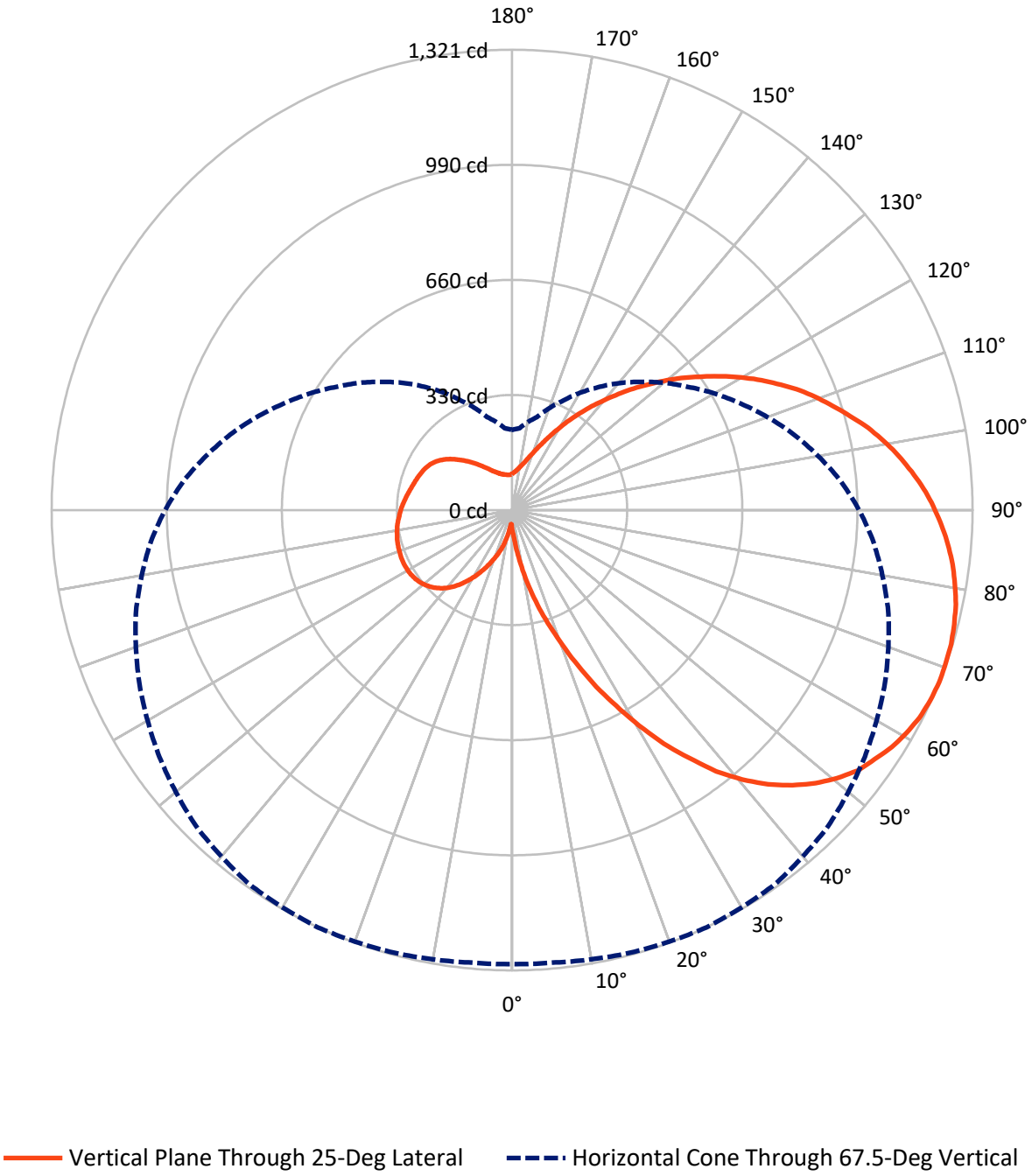
Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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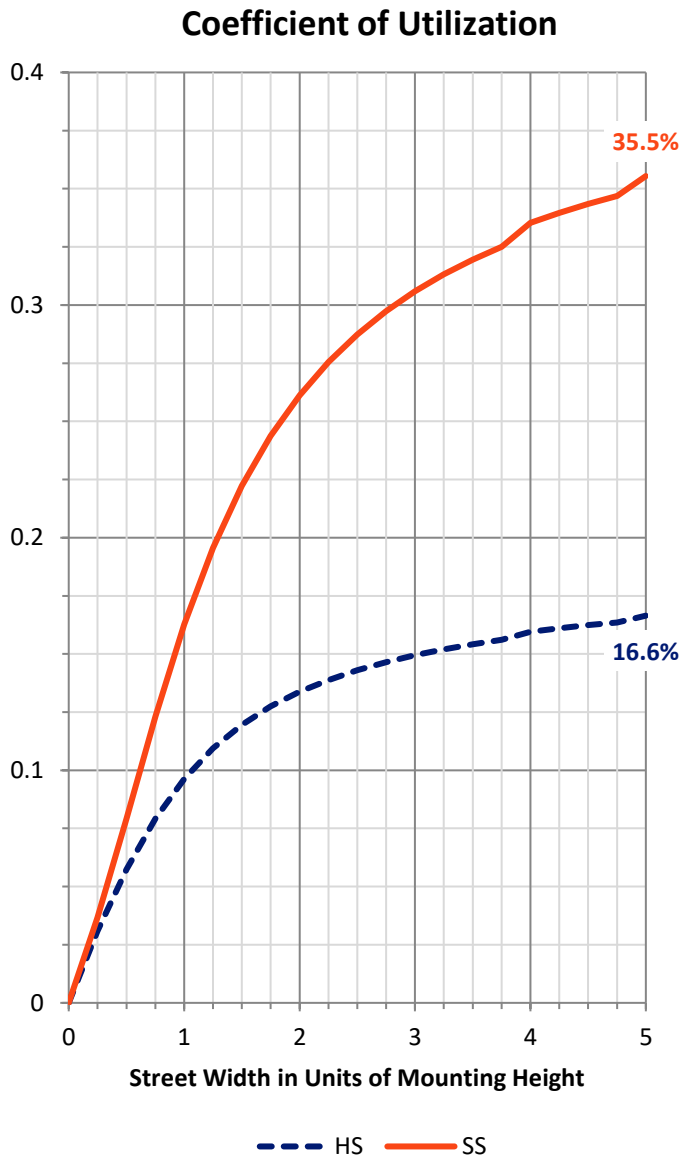
REPORT NUMBER: P1224000
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.5	1127.0	2601.5
	% Fixture	18.3	14.0	32.3
Street Side	Lumens	3258.0	2191.6	5449.6
	% Fixture	40.5	27.2	67.7
Total	Lumens	4732.4	3318.6	8051.1
	% Fixture	58.8	41.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.1
10°-20°	61.3	0.8
20°-30°	183.4	2.3
30°-40°	377.4	4.7
40°-50°	589.3	7.3
50°-60°	763.3	9.5
60°-70°	880.1	10.9
70°-80°	936.4	11.6
80°-90°	932.4	11.6
90°-100°	869.8	10.8
100°-110°	760.3	9.4
110°-120°	622.6	7.7
120°-130°	463.0	5.8
130°-140°	301.2	3.7
140°-150°	170.6	2.1
150°-160°	84.1	1.0
160°-170°	36.7	0.5
170°-180°	10.3	0.1
0°-90°	4732.4	58.8
0°-180°	8051.1	100.0



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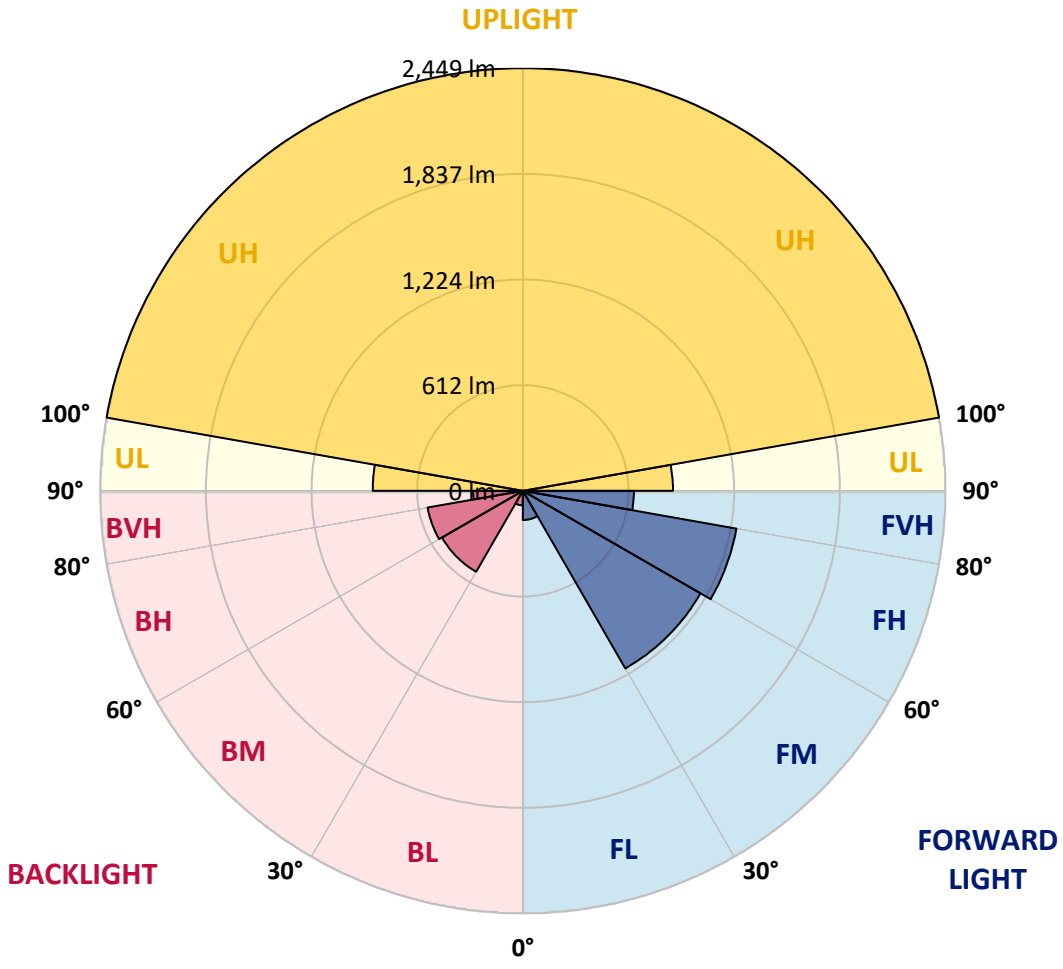
Scaled Data Report

REPORT NUMBER: P1224000
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	169.1	2.1			
FM	(30°-60°)	1188.7	14.8			
FH	(60°-80°)	1256.5	15.6			G1/1800
FVH	(80°-90°)	643.6	8.0			G4/750
BL	(0°-30°)	84.3	1.0	B0/110		
BM	(30°-60°)	541.3	6.7	B1/1000		
BH	(60°-80°)	560.0	7.0	B2/1000		G2/1000
BVH	(80°-90°)	288.8	3.6			G3/500
UL	(90°-100°)	869.8	10.8		U4/1000	
UH	(100°-180°)	2448.8	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°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	69.5	69.5	70.0	70.0	69.0	69.5	68.5	67.0	65.9	63.4	62.4
5°	101.2	99.7	100.2	99.1	97.1	96.1	92.0	88.9	83.8	78.2	75.6
7.5°	140.5	141.1	139.0	136.5	135.9	130.3	129.3	119.6	115.5	105.8	103.2
10°	189.1	188.1	186.0	185.5	180.9	175.3	166.6	161.5	148.2	141.1	135.4
12.5°	242.3	242.8	239.2	235.6	231.5	223.9	212.1	203.9	193.2	178.4	171.2
15°	299.5	297.4	297.4	293.4	287.2	278.5	269.3	257.6	242.3	226.4	216.2
17.5°	352.6	356.7	355.2	350.1	344.5	333.7	324.0	307.7	290.8	273.4	260.7
20°	419.1	420.1	417.6	413.0	407.8	395.6	383.8	367.5	346.5	319.4	308.7
22.5°	486.0	488.1	488.1	485.5	478.4	467.6	448.7	430.8	404.8	377.7	359.8
25°	563.2	561.7	563.2	561.7	549.9	540.2	520.8	499.3	471.2	438.0	416.5
27.5°	640.9	642.9	638.8	635.3	630.7	615.3	594.4	567.3	532.0	497.3	474.3
30°	716.5	721.1	721.1	717.0	709.9	694.6	671.0	641.9	603.1	559.1	532.0
32.5°	795.7	797.3	799.3	798.8	790.6	775.8	749.8	710.4	667.0	618.4	591.8
35°	879.6	875.0	876.0	872.9	869.3	850.9	820.8	783.0	736.0	681.8	649.6
37.5°	949.1	947.0	948.6	951.1	941.4	922.5	887.7	843.8	792.2	735.4	703.2
40°	1015.0	1013.5	1016.0	1016.5	1006.8	984.8	948.1	905.6	849.9	784.5	754.4
42.5°	1070.2	1070.2	1072.8	1075.8	1065.6	1042.1	1004.8	954.2	896.9	831.0	794.2
45°	1121.3	1119.8	1124.9	1126.4	1116.2	1092.7	1050.8	999.7	938.3	871.4	833.1
47.5°	1162.2	1162.7	1167.8	1170.9	1161.7	1135.1	1092.7	1038.5	974.6	904.6	865.3
50°	1195.9	1200.5	1205.1	1208.7	1199.0	1172.4	1128.5	1069.7	1005.8	935.3	894.4
52.5°	1229.7	1229.7	1236.8	1241.4	1230.7	1203.1	1157.1	1099.8	1034.4	959.8	919.9
55°	1251.1	1251.6	1260.3	1261.9	1255.2	1226.6	1179.6	1122.3	1056.9	981.8	939.4
57.5°	1270.0	1270.5	1280.3	1283.8	1274.6	1247.0	1199.0	1139.7	1075.8	999.2	956.2
60°	1286.4	1285.9	1294.1	1299.2	1290.0	1260.8	1213.8	1156.1	1090.6	1015.0	970.5
62.5°	1296.6	1296.6	1306.3	1311.4	1301.7	1273.1	1225.1	1167.8	1102.4	1025.7	981.8
65°	1301.2	1302.2	1311.4	1317.6	1308.4	1279.2	1231.2	1175.0	1110.6	1034.4	990.0
67.5°	1302.7	1303.3	1314.5	1320.6	1311.9	1282.3	1234.8	1179.6	1116.7	1040.0	995.1
70°	1303.8	1304.3	1313.0	1319.1	1311.4	1281.8	1235.8	1181.6	1120.3	1043.1	998.1
72.5°	1298.1	1299.7	1309.4	1316.5	1307.3	1278.2	1233.2	1181.6	1119.8	1045.2	999.2
75°	1291.0	1294.6	1303.3	1309.4	1301.2	1273.1	1229.1	1179.6	1119.3	1044.1	999.2
77.5°	1283.8	1284.3	1295.6	1301.2	1292.5	1263.9	1222.0	1174.5	1116.2	1041.1	995.6
80°	1269.5	1272.6	1282.3	1287.4	1279.7	1252.7	1211.8	1167.3	1110.6	1036.0	990.0
82.5°	1259.3	1258.3	1268.0	1272.6	1264.9	1236.8	1200.0	1156.1	1102.4	1027.3	982.3
85°	1239.9	1241.9	1249.6	1253.7	1245.0	1219.4	1184.2	1144.8	1091.2	1017.6	972.1
87.5°	1221.5	1222.5	1227.6	1232.2	1223.5	1199.0	1166.3	1129.0	1077.4	1005.3	960.8
90°	1198.5	1199.0	1204.6	1208.2	1200.5	1177.5	1147.4	1111.1	1062.5	991.5	947.0
92.5°	1177.0	1176.0	1180.1	1181.6	1175.0	1152.5	1125.4	1091.7	1044.6	974.6	931.7
95°	1148.9	1148.4	1152.0	1150.9	1143.8	1124.4	1099.8	1070.2	1023.7	956.7	914.3
97.5°	1117.7	1118.2	1120.3	1119.3	1111.6	1093.7	1074.8	1045.2	1002.2	935.8	894.9
100°	1083.0	1084.5	1087.6	1084.5	1077.9	1064.6	1044.6	1020.1	977.7	914.8	874.5
102.5°	1053.8	1049.8	1048.7	1048.2	1041.6	1029.8	1014.5	993.0	953.7	891.8	853.0
105°	1015.5	1013.0	1012.4	1006.8	1004.3	994.6	981.8	962.4	927.1	868.8	831.0
107.5°	975.1	975.6	973.6	967.0	963.4	956.7	949.6	932.2	898.5	843.3	808.5
110°	938.9	936.3	930.7	927.6	925.1	919.4	914.8	901.5	870.4	818.7	784.0

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REPORT NUMBER: P1224000
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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	893.9	895.4	888.8	*886.7*	882.6	882.1	879.1	868.3	840.7	792.7	760.0
115°	853.5	852.5	845.8	*841.7*	840.2	841.2	843.3	835.6	810.1	764.6	734.4
117.5°	809.0	806.0	801.4	*797.3*	795.2	799.3	803.9	800.3	778.9	736.0	707.3
120°	761.5	762.0	755.4	*751.3*	751.8	758.4	764.6	762.5	742.1	703.8	678.2
122.5°	717.0	714.5	708.9	*704.8*	708.4	715.5	722.7	722.2	704.3	667.0	644.0
125°	668.5	668.0	662.4	*658.3*	661.3	669.5	678.2	679.2	662.4	631.2	608.2
127.5°	622.5	621.0	619.9	*615.3*	617.4	628.6	634.8	634.2	619.4	590.8	570.9
130°	578.5	578.0	571.9	*569.9*	572.4	581.6	587.7	586.7	575.0	549.9	532.0
132.5°	534.1	532.0	529.5	*526.4*	528.5	536.1	544.3	543.3	529.5	505.5	491.1
135°	490.1	488.6	486.5	*484.5*	486.0	493.7	500.9	498.8	487.1	465.6	451.3
137.5°	449.7	448.2	445.7	*443.1*	445.1	451.3	455.9	454.3	444.6	424.2	410.4
140°	407.8	408.9	405.8	*403.8*	404.8	410.9	414.5	412.4	401.7	384.8	373.6
142.5°	369.5	369.5	368.0	*367.5*	369.0	372.1	375.1	371.0	363.9	346.5	337.3
145°	332.7	333.2	332.7	*331.7*	332.2	335.8	336.3	334.8	326.6	313.8	303.6
147.5°	298.0	299.5	298.5	*298.5*	299.0	300.5	302.6	299.0	291.8	280.6	273.4
150°	265.8	266.8	266.8	*265.8*	265.8	267.8	267.8	265.2	259.6	250.4	243.8
152.5°	237.7	238.2	238.2	*237.1*	237.7	238.2	237.1	234.1	229.5	222.3	217.2
155°	212.1	213.1	211.6	*212.1*	210.6	211.1	210.6	208.5	203.4	197.3	194.2
157.5°	189.1	190.6	189.6	*189.6*	188.6	188.1	187.6	185.5	181.9	176.8	173.3
160°	170.7	171.7	170.2	*170.2*	169.2	169.2	167.1	166.1	162.5	157.9	155.9
162.5°	154.9	154.9	154.3	*154.9*	154.3	152.8	151.8	149.7	146.7	143.1	141.6
165°	142.1	141.6	141.6	*141.1*	140.5	139.5	138.0	137.0	133.9	130.8	129.8
167.5°	132.4	131.9	131.3	*130.8*	129.8	129.3	127.8	126.7	124.2	121.6	120.6
170°	124.2	124.2	123.2	*122.7*	122.1	121.1	119.6	118.1	116.0	114.5	113.5
172.5°	117.0	117.0	116.5	*116.0*	115.5	114.5	112.9	111.9	110.4	108.9	107.8
175°	111.9	111.9	111.4	*110.4*	109.9	108.9	107.8	106.8	105.3	104.3	103.7
177.5°	107.8	107.8	107.8	*106.8*	106.3	105.3	104.3	103.2	102.7	101.7	101.7
180°	102.7	102.7	102.7	*102.7*	102.7	102.7	102.7	102.7	102.7	102.7	102.7

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	60.8	57.8	55.2	51.1	47.5	44.5	42.4	40.9	39.9	38.8
5°	72.6	67.0	61.3	55.2	49.6	44.5	40.4	37.3	35.8	35.8
7.5°	99.1	90.5	80.8	72.1	65.4	58.8	52.6	49.1	47.0	46.0
10°	129.8	117.0	107.3	96.6	84.8	76.7	69.5	64.9	62.4	62.9
12.5°	166.6	150.8	138.5	122.7	109.9	97.1	89.4	82.8	79.7	79.2
15°	207.5	189.1	171.2	152.3	135.4	120.6	109.4	100.7	95.6	95.1
17.5°	250.4	227.4	203.4	181.9	160.0	141.6	126.2	116.0	110.4	110.4
20°	293.9	267.8	239.7	211.6	185.0	162.5	144.6	131.3	124.2	123.2
22.5°	344.0	310.7	277.0	242.8	212.6	184.5	161.5	145.7	138.0	136.5
25°	398.6	359.3	318.9	278.5	241.2	207.5	180.9	163.0	152.3	150.8
27.5°	455.4	407.8	360.3	313.3	269.8	232.5	200.3	177.3	166.6	165.1
30°	511.1	458.9	403.8	348.6	299.5	256.6	219.8	193.2	179.9	177.9
32.5°	565.8	506.5	445.7	384.3	330.7	280.6	237.7	209.0	192.7	190.6
35°	617.9	556.6	485.5	419.6	358.3	304.6	256.6	223.3	204.9	202.9
37.5°	669.0	599.5	524.9	452.3	385.9	325.0	273.9	236.6	216.2	214.1
40°	717.6	640.4	559.1	482.5	409.9	345.5	288.8	248.4	225.4	222.8
42.5°	754.9	675.6	590.8	508.0	430.8	360.8	302.0	257.6	232.5	229.0
45°	792.2	707.3	617.9	530.5	449.2	375.6	312.8	265.8	239.2	235.1
47.5°	822.8	734.4	639.9	548.9	464.6	388.4	322.0	271.4	243.3	239.2
50°	852.0	758.4	660.3	565.8	478.4	399.7	329.6	276.0	245.8	241.7
52.5°	874.5	778.4	676.7	579.1	489.6	407.8	335.8	279.0	247.4	242.8
55°	893.4	794.7	690.0	589.3	498.3	415.0	340.4	280.6	247.4	242.8
57.5°	909.2	807.5	700.7	598.5	504.9	419.6	343.4	281.1	245.8	241.2
60°	923.0	819.3	709.4	605.6	511.1	424.2	345.5	281.1	244.3	239.2
62.5°	934.3	827.4	716.0	611.3	515.7	427.8	346.5	280.1	241.2	236.1
65°	940.9	833.1	720.1	614.3	518.2	428.8	346.5	278.5	238.2	233.1
67.5°	*946.5*	*836.6*	*722.7*	*615.8*	*519.8*	*429.8*	*346.0*	*276.0*	*235.1*	*230.0*
70°	949.1	838.2	723.7	616.9	520.8	429.3	344.5	273.9	232.0	225.9
72.5°	949.6	838.7	723.2	616.9	520.8	429.3	342.9	270.9	228.5	222.8
75°	948.6	837.1	721.6	616.4	520.3	427.8	341.4	268.3	225.4	219.3
77.5°	945.5	834.1	719.1	614.3	517.7	426.2	338.3	265.2	221.8	216.2
80°	940.4	829.0	715.0	610.7	514.7	423.2	335.8	262.2	218.7	213.1
82.5°	932.7	822.3	709.9	606.1	511.6	419.6	332.7	259.1	215.7	210.1
85°	923.5	814.1	702.2	600.5	507.0	415.5	328.6	255.5	212.6	207.0
87.5°	910.7	803.9	694.0	593.9	500.9	410.4	324.0	252.5	210.1	204.4
90°	898.5	792.7	685.4	586.7	495.2	405.8	319.9	248.9	208.0	202.4
92.5°	884.2	779.4	674.6	578.5	487.6	399.7	315.8	245.8	206.0	200.9
95°	867.8	765.1	663.4	568.8	480.4	393.5	310.7	242.8	203.9	199.3
97.5°	849.4	749.8	651.1	558.6	471.7	386.9	306.1	240.2	202.9	197.8
100°	830.5	732.4	637.8	548.4	463.0	379.7	301.5	237.7	202.4	197.8
102.5°	809.0	716.5	624.5	538.2	454.3	373.1	296.9	236.1	202.4	197.8
105°	788.6	698.1	610.2	526.9	445.7	366.4	292.8	235.1	202.9	198.8
107.5°	766.6	680.8	595.9	515.2	436.0	359.8	289.3	234.1	203.9	199.8
110°	746.2	663.9	582.6	503.9	427.3	353.7	285.7	233.6	204.9	201.4

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

Scaled Data Report

REPORT NUMBER: P1224000
CATALOG NUMBER: FFX-CLB-50-740-U-VM8-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	723.7	645.5	567.8	491.7	418.1	346.5	282.1	232.5	206.0	202.9
115°	700.2	626.1	553.0	479.4	407.3	339.9	278.5	232.0	207.0	203.9
117.5°	674.6	605.1	535.1	465.1	396.1	331.7	273.4	230.0	207.0	203.9
120°	647.0	583.1	515.7	449.7	383.3	322.0	268.3	227.4	206.0	203.4
122.5°	616.9	557.1	493.2	430.3	369.0	310.7	260.7	222.8	203.4	200.9
125°	583.7	527.9	470.2	409.4	351.1	298.0	251.5	217.7	199.3	197.3
127.5°	548.9	497.8	442.6	387.4	334.2	284.2	241.7	210.1	193.7	191.7
130°	510.1	464.1	414.0	362.9	314.3	268.3	230.0	201.4	186.5	184.5
132.5°	472.7	430.8	385.9	340.4	293.4	253.0	217.2	191.7	178.9	176.8
135°	433.9	397.1	356.7	313.8	273.9	236.1	204.4	181.9	170.2	168.7
137.5°	396.1	364.9	327.1	289.3	254.0	219.8	192.2	172.7	162.0	161.0
140°	360.8	331.7	300.0	266.8	234.1	204.4	180.4	162.5	153.8	152.3
142.5°	326.6	301.5	272.9	244.8	214.7	189.6	168.7	152.8	145.7	144.6
145°	294.4	273.4	248.4	222.8	197.3	175.3	157.4	144.1	138.0	137.5
147.5°	264.2	246.9	224.9	203.4	181.9	163.5	147.2	137.0	131.3	130.8
150°	236.6	220.8	203.4	185.0	167.1	150.8	138.5	129.3	124.7	124.2
152.5°	210.6	198.3	184.0	169.2	153.8	141.1	129.8	123.2	119.6	119.1
155°	188.1	178.4	166.6	153.8	142.1	131.9	123.2	118.1	115.0	115.0
157.5°	169.2	161.0	152.3	142.1	132.4	124.2	118.1	113.5	110.9	110.9
160°	152.8	145.7	139.0	131.3	124.7	118.1	113.5	109.9	107.8	107.8
162.5°	139.0	133.9	128.8	123.2	117.5	113.5	109.4	106.8	105.8	105.3
165°	127.8	124.7	120.6	116.5	112.9	109.4	106.8	105.3	104.3	104.3
167.5°	119.1	117.0	114.0	111.4	108.9	106.3	104.8	103.7	103.2	103.2
170°	112.4	110.9	108.9	107.3	105.8	104.3	103.2	102.7	102.2	102.2
172.5°	107.3	105.8	104.8	104.3	103.2	102.7	102.2	101.7	101.7	101.7
175°	103.7	102.7	102.7	102.2	101.7	101.7	101.2	101.2	101.2	101.7
177.5°	101.2	101.2	101.2	101.2	101.2	101.7	101.7	101.7	102.2	102.2
180°	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7	102.7

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: SP1-2501-332-1

Test Date: 03/20/2025

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

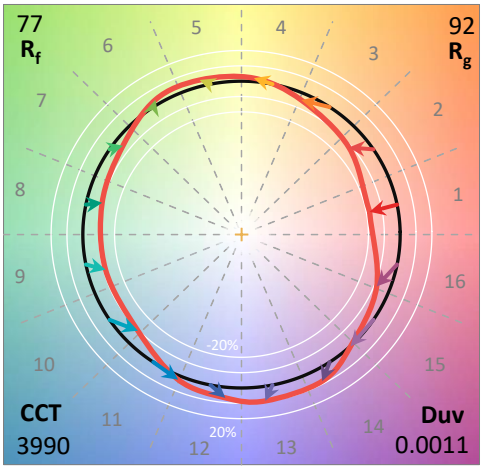
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-1
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-100-740-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	3990	CRI (Ra):	73.9		
CIE u':	0.2247	R1:	69.6	R9:	-36.4
CIE v':	0.5031	R2:	83.0	R10:	60.9
Duv:	0.0011	R3:	93.1	R11:	66.8
CIE x:	0.3816	R4:	70.6	R12:	52.5
CIE y:	0.3798	R5:	70.6	R13:	72.5
CIE z:	0.2386	R6:	76.4	R14:	96.4
Peak Wavelength (nm):	450	R7:	79.8	R15:	61.3
Dominant Wavelength (nm):	578	R8:	48.1		
Purity:	28.50862				

Rf:	77.5
Rg:	91.9



Test Conditions

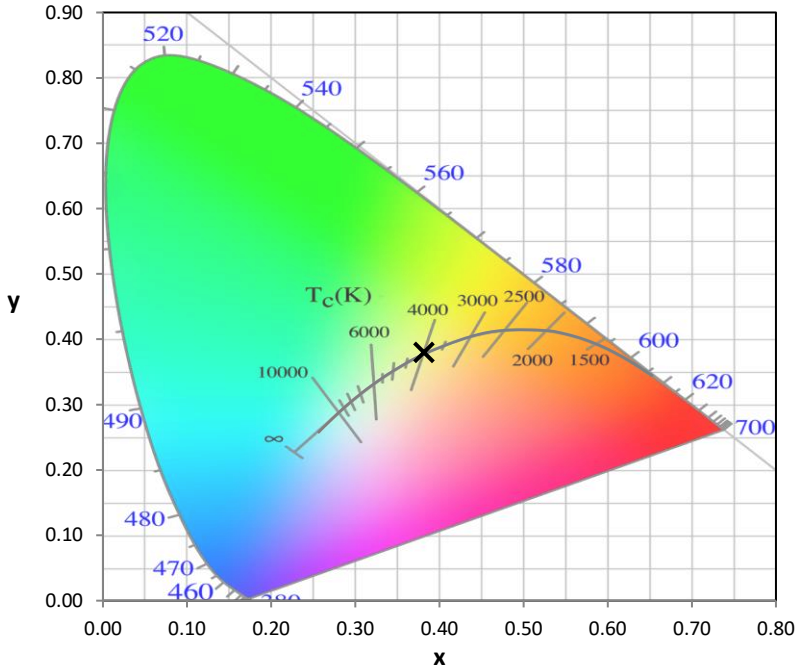
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

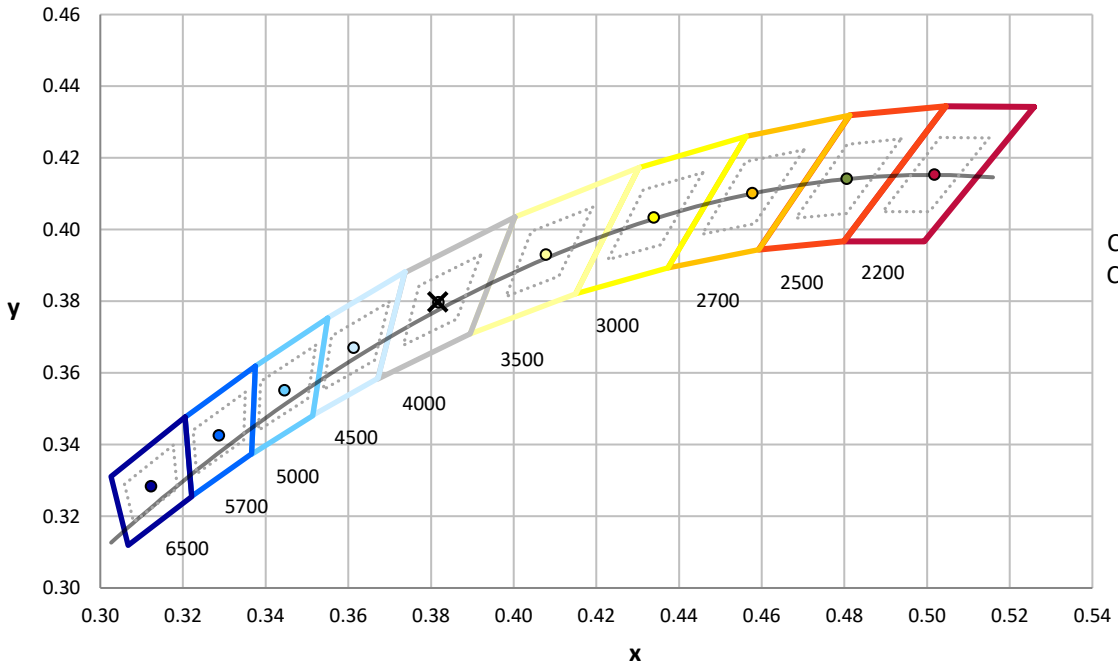
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-1

CIE 1931 Chromaticity Diagram



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

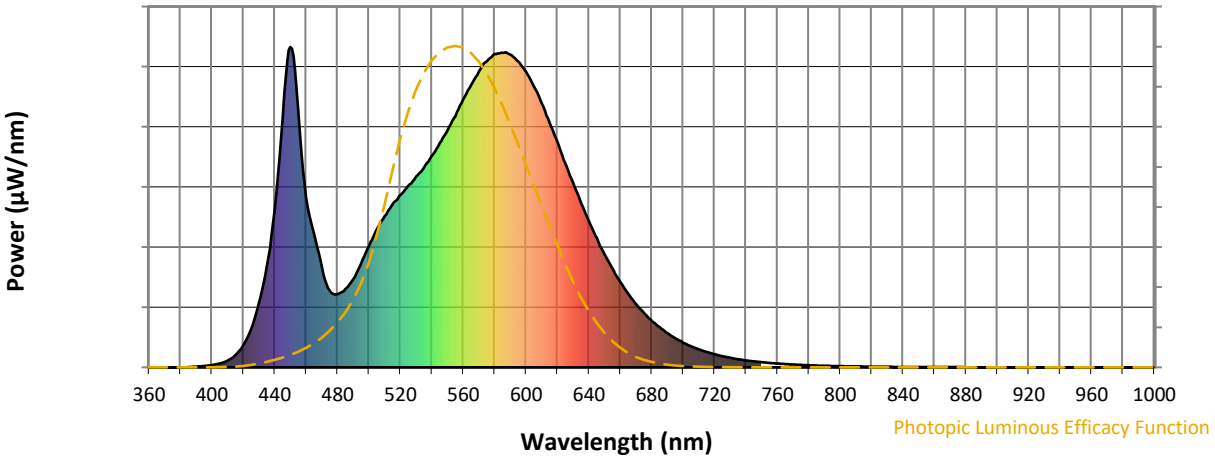


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

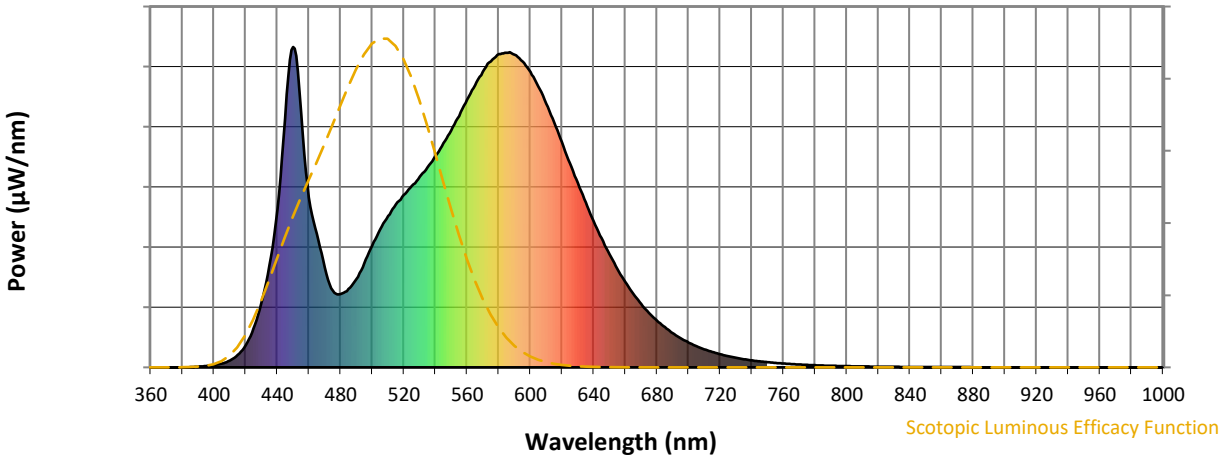


Photopic Lumens: NR

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Scotopic Flux vs. Wavelength

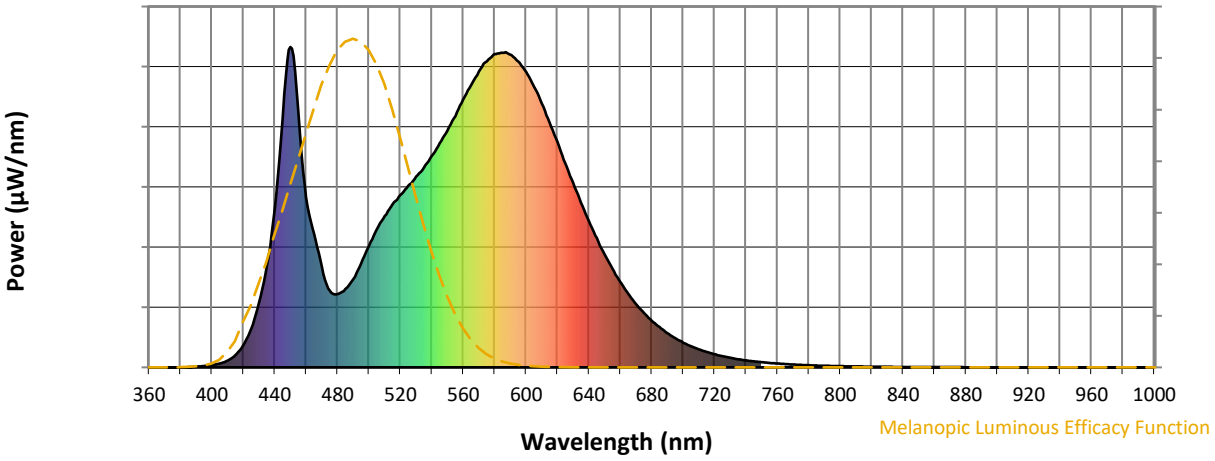


Scotopic Lumens: NR **S/P: 1.59**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.21**

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	275	NR	620	703	NR	750	16	NR	880	1	NR
365	0	NR	495	324	NR	625	637	NR	755	14	NR	885	0	NR
370	0	NR	500	380	NR	630	576	NR	760	12	NR	890	0	NR
375	0	NR	505	431	NR	635	514	NR	765	10	NR	895	0	NR
380	0	NR	510	472	NR	640	456	NR	770	9	NR	900	0	NR
385	1	NR	515	508	NR	645	403	NR	775	8	NR	905	0	NR
390	2	NR	520	538	NR	650	353	NR	780	7	NR	910	0	NR
395	4	NR	525	567	NR	655	307	NR	785	6	NR	915	0	NR
400	7	NR	530	595	NR	660	266	NR	790	5	NR	920	0	NR
405	12	NR	535	624	NR	665	230	NR	795	4	NR	925	0	NR
410	21	NR	540	660	NR	670	198	NR	800	4	NR	930	0	NR
415	39	NR	545	700	NR	675	170	NR	805	3	NR	935	0	NR
420	69	NR	550	739	NR	680	146	NR	810	3	NR	940	0	NR
425	121	NR	555	784	NR	685	125	NR	815	3	NR	945	0	NR
430	202	NR	560	836	NR	690	107	NR	820	2	NR	950	0	NR
435	319	NR	565	881	NR	695	91	NR	825	2	NR	955	0	NR
440	492	NR	570	923	NR	700	77	NR	830	2	NR	960	0	NR
445	777	NR	575	955	NR	705	66	NR	835	1	NR	965	0	NR
450	1000	NR	580	978	NR	710	56	NR	840	1	NR	970	0	NR
455	797	NR	585	982	NR	715	48	NR	845	1	NR	975	0	NR
460	530	NR	590	976	NR	720	41	NR	850	1	NR	980	0	NR
465	418	NR	595	955	NR	725	35	NR	855	1	NR	985	0	NR
470	311	NR	600	922	NR	730	30	NR	860	1	NR	990	0	NR
475	239	NR	605	877	NR	735	25	NR	865	1	NR	995	0	NR
480	229	NR	610	823	NR	740	22	NR	870	1	NR	1000	0	NR
485	245	NR	615	764	NR	745	19	NR	875	1	NR			

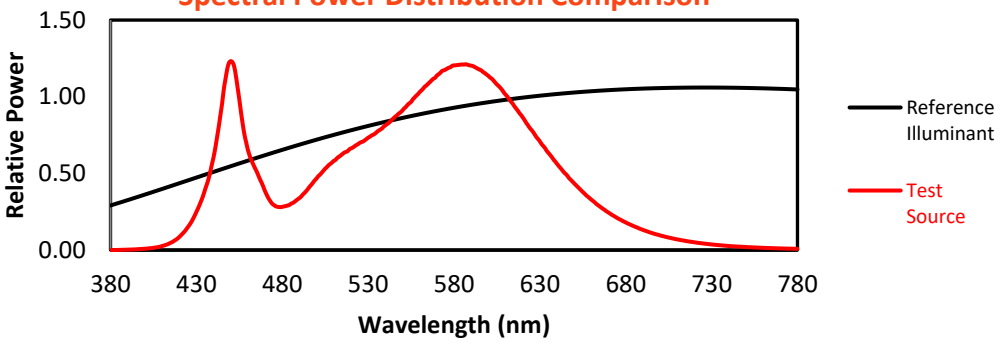
REPORT NUMBER: SP1-2501-332-1

TM-30-18

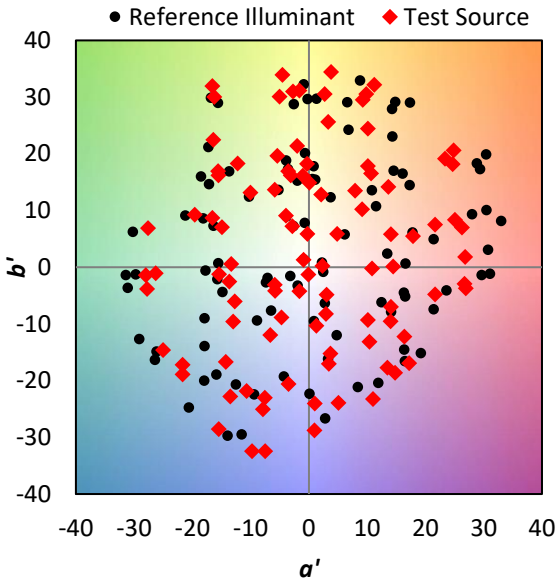
Summary

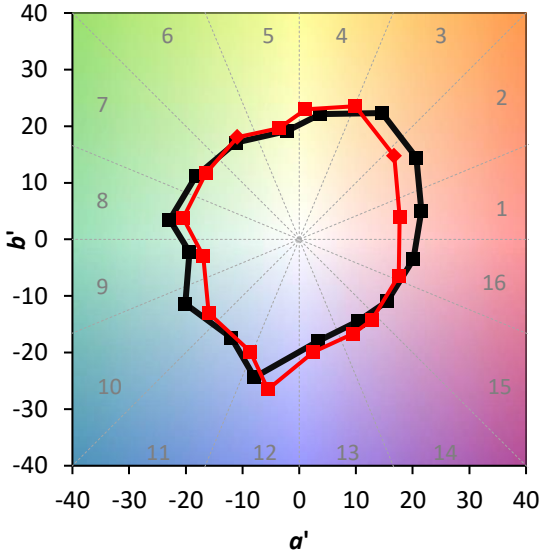
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

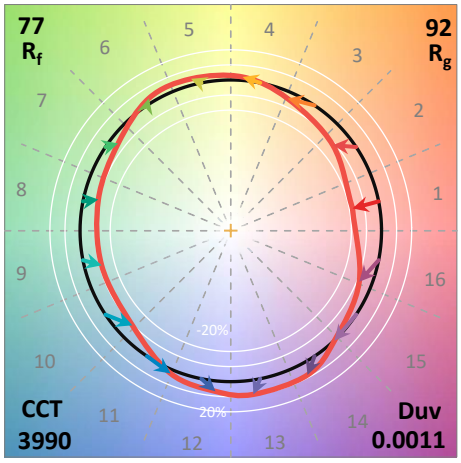
Spectral Power Distribution Comparison

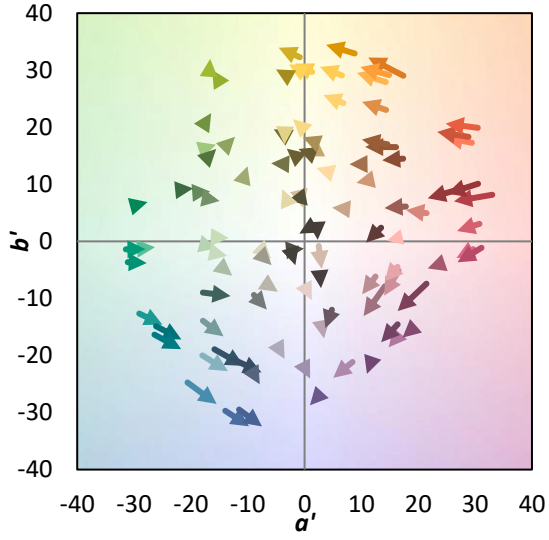


Color Vector Graphics







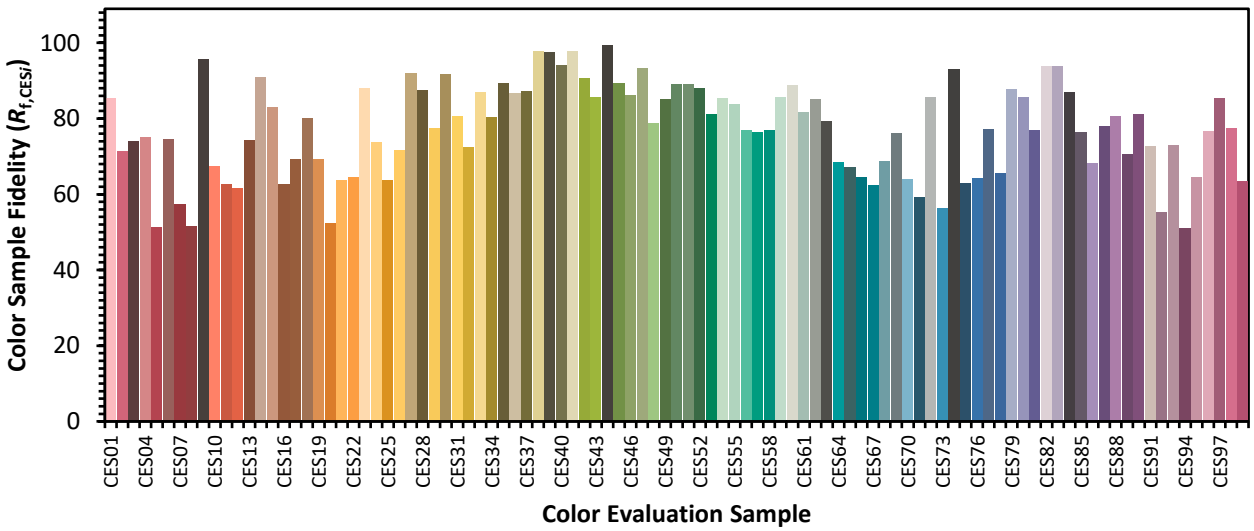


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

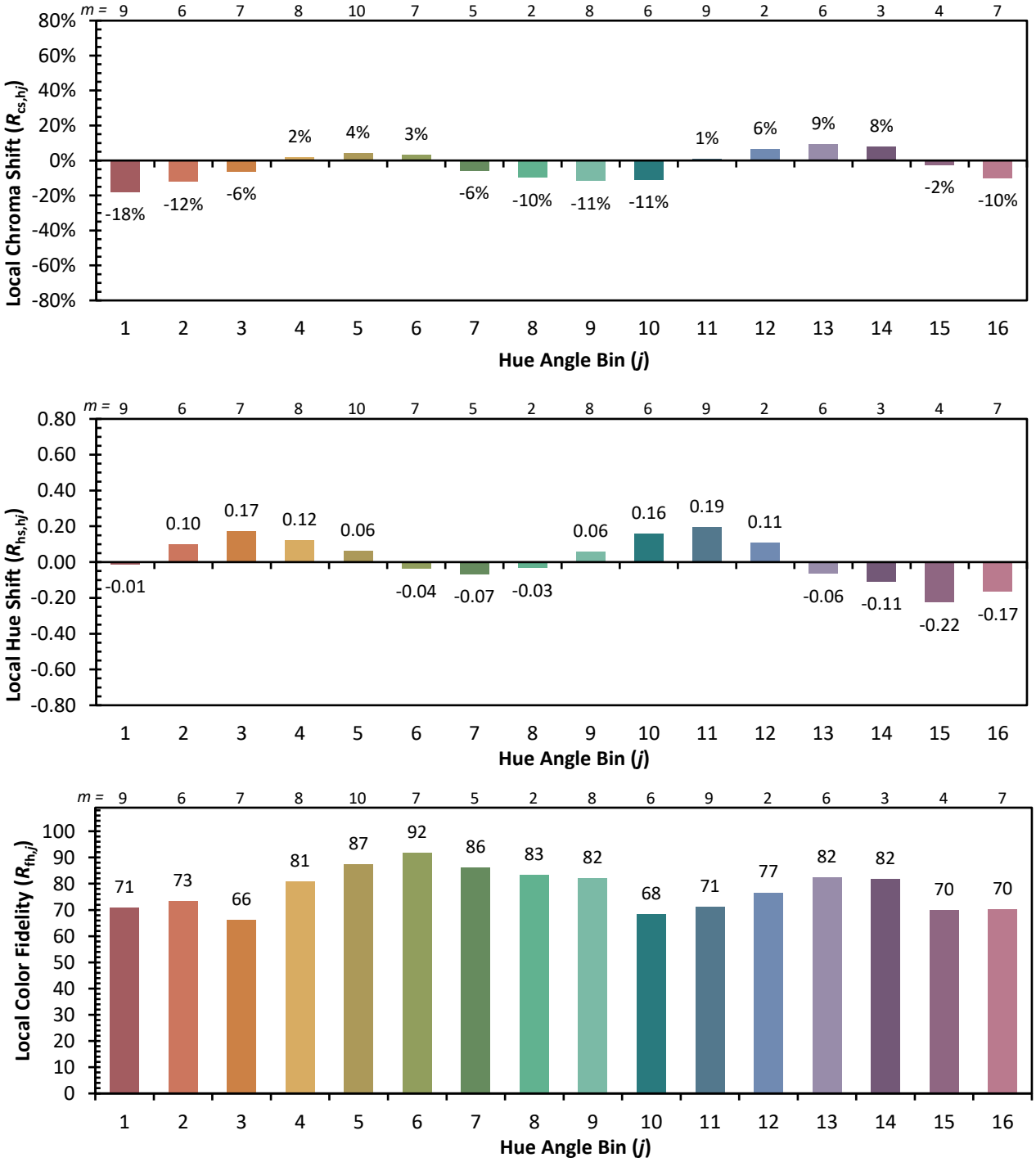
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 76	CES82 = 94
CES08 = 39	CES33 = 87	CES58 = 77	CES83 = 94
CES09 = 29	CES34 = 80	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 89	CES60 = 89	CES85 = 76
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 68
CES12 = 63	CES37 = 87	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 98	CES63 = 79	CES88 = 81
CES14 = 74	CES39 = 98	CES64 = 68	CES89 = 71
CES15 = 71	CES40 = 94	CES65 = 67	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 65	CES91 = 73
CES17 = 49	CES42 = 91	CES67 = 62	CES92 = 55
CES18 = 56	CES43 = 86	CES68 = 69	CES93 = 73
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 51
CES20 = 65	CES45 = 89	CES70 = 64	CES95 = 65
CES21 = 86	CES46 = 86	CES71 = 59	CES96 = 77
CES22 = 78	CES47 = 93	CES72 = 86	CES97 = 85
CES23 = 92	CES48 = 79	CES73 = 56	CES98 = 77
CES24 = 91	CES49 = 85	CES74 = 93	CES99 = 63
CES25 = 72	CES50 = 89	CES75 = 63	



REPORT NUMBER: SP1-2501-332-1

TM-30-18

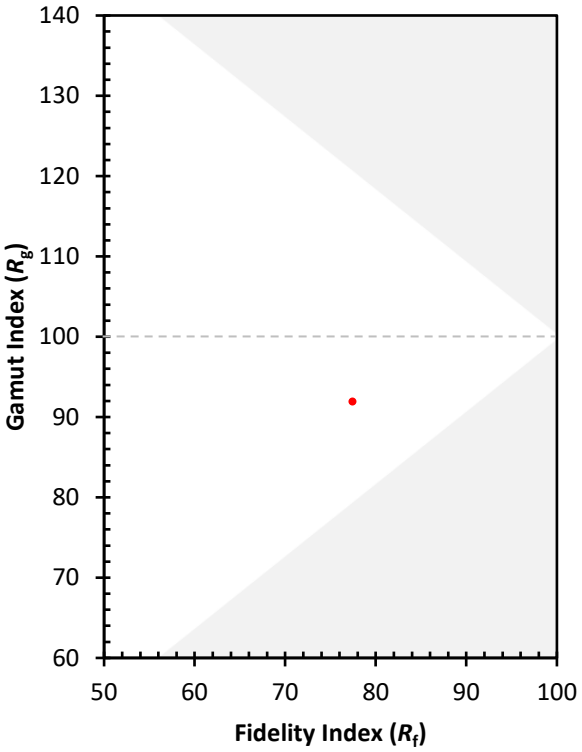
Color Rendition by Hue-Angle Bin

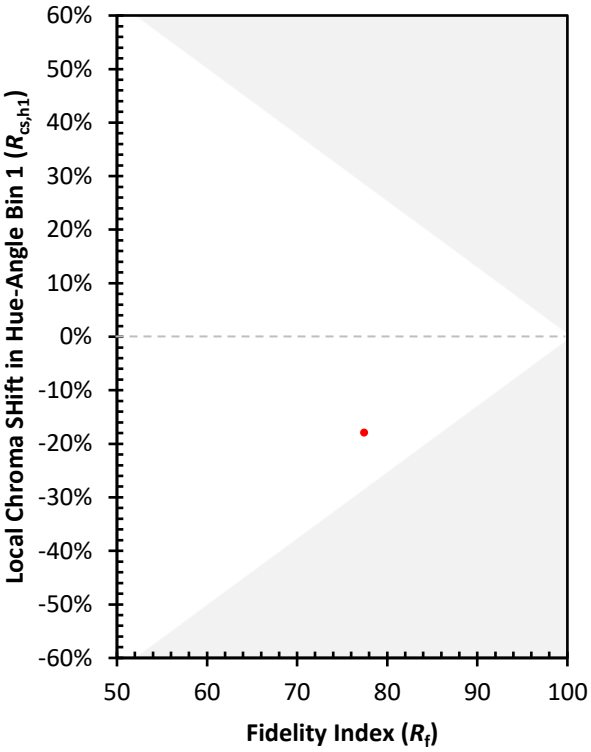


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Measure Comparisons





(END OF REPORT)