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: P1223954

Luminaire Tested: **FFX-CLB-60-740-U-VM9-T4-HSS**

Issue Date: 01/27/2026

Report Generated By 670245763

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Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1223954
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-740-U-VM9-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 9 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8797.6 lumens
Efficiency:	N/A
Efficacy:	145.2 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U5 - G5

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

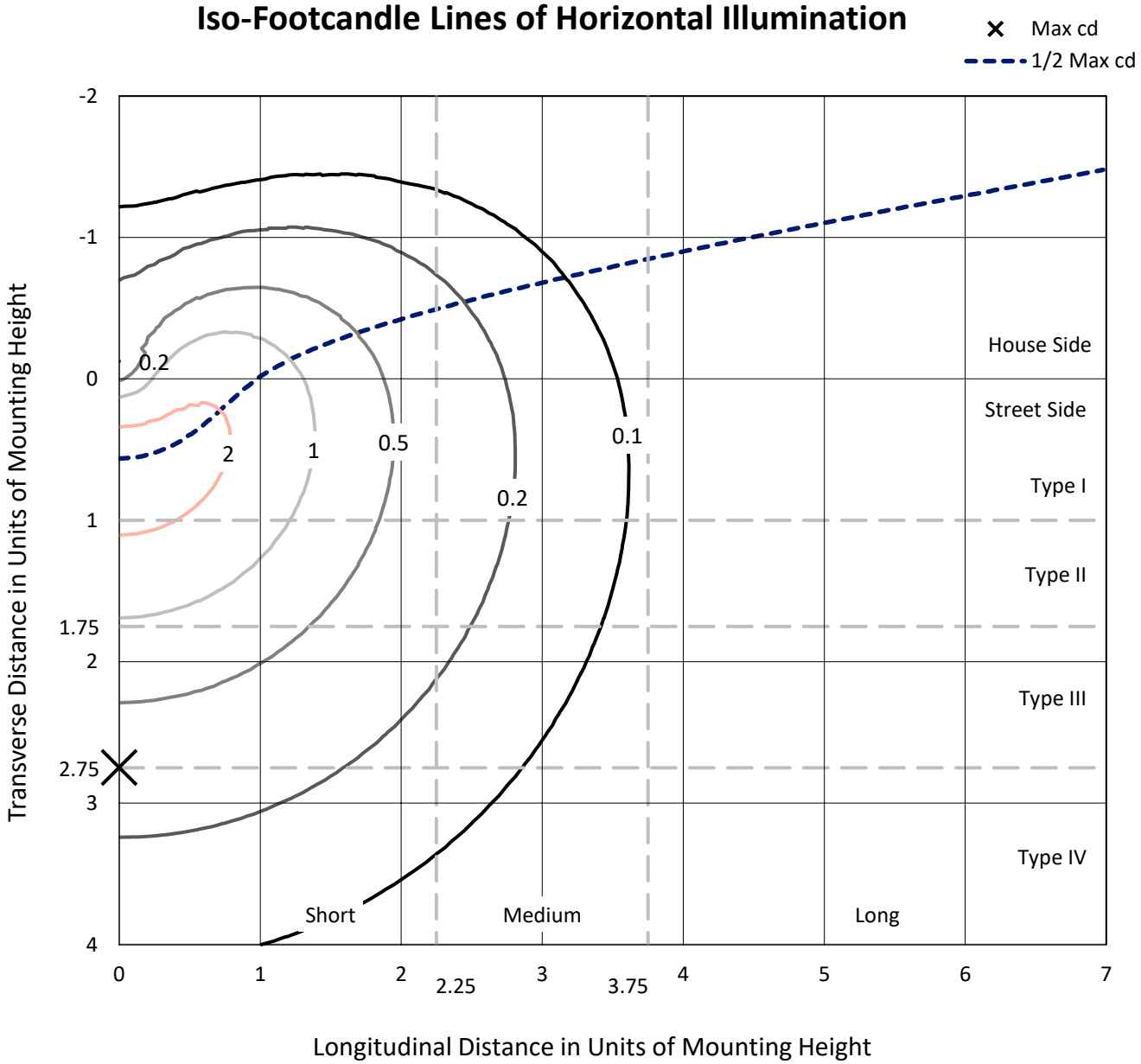


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Iso-Footcandle Lines of Horizontal Illumination



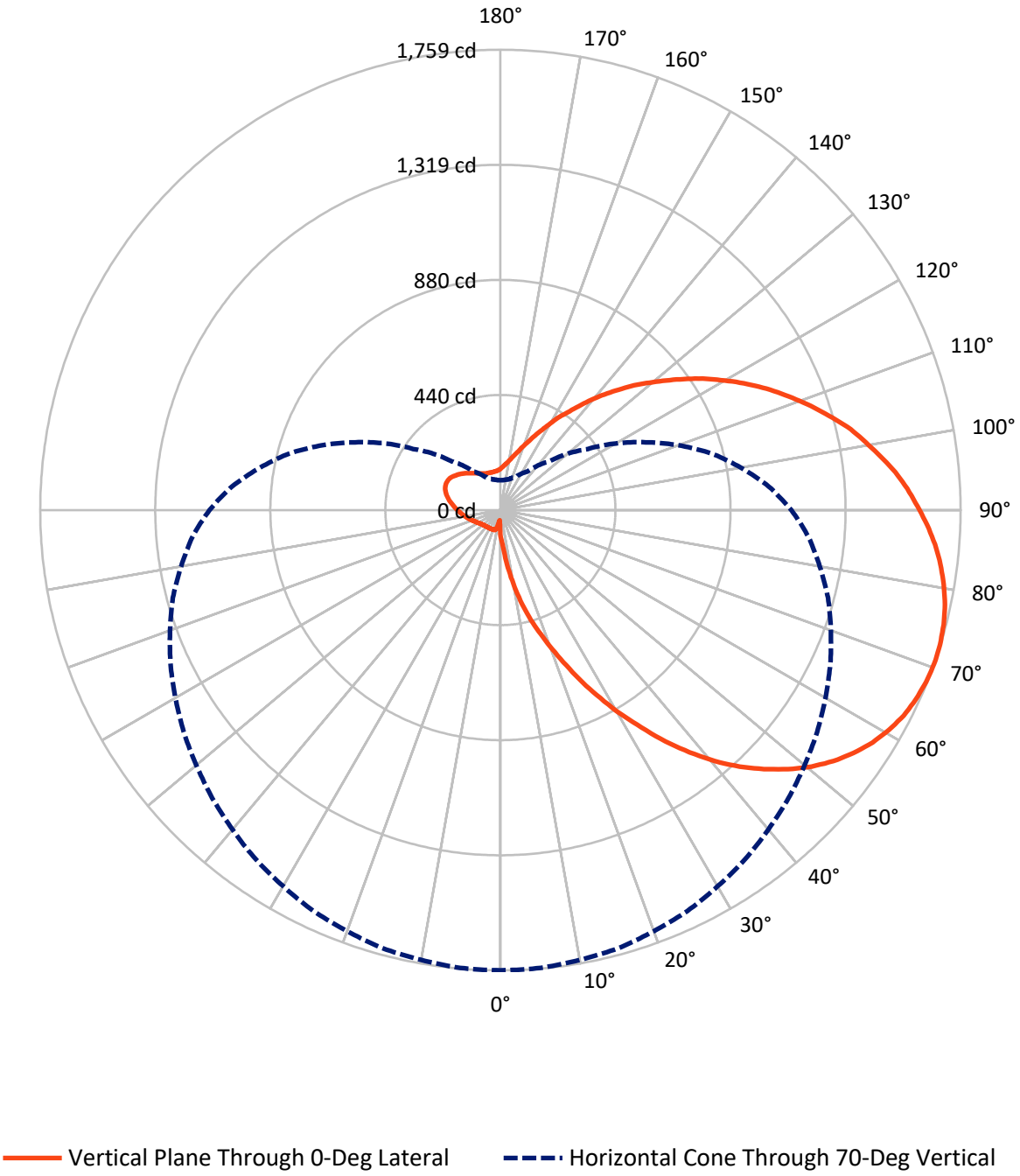
Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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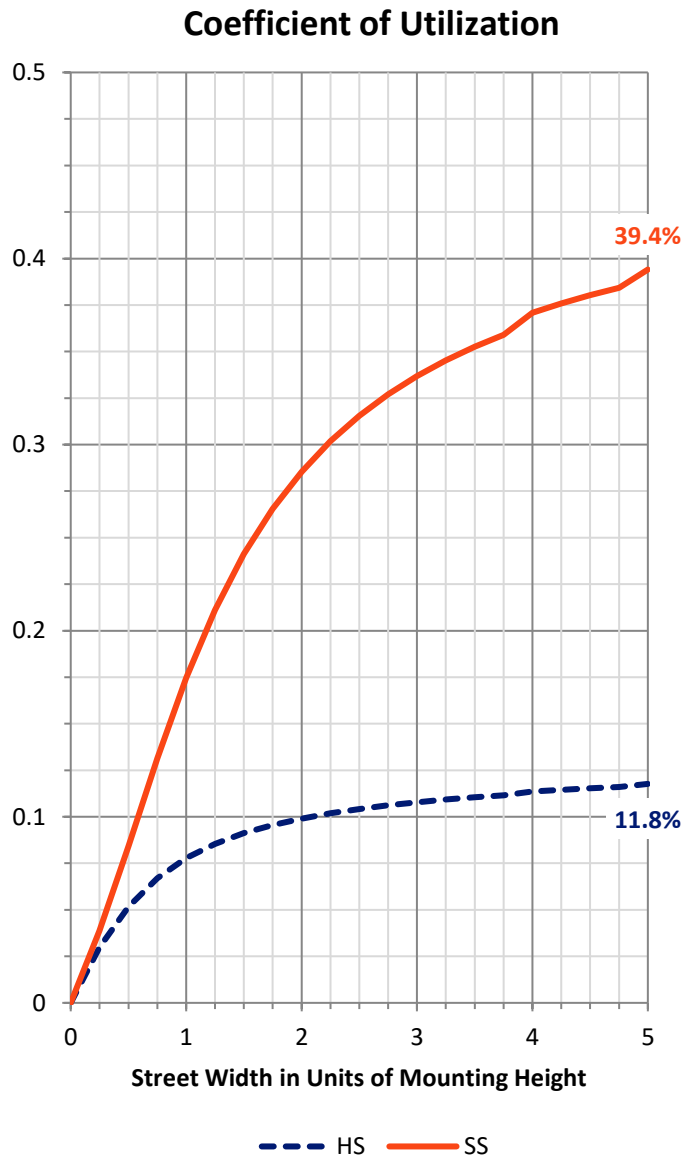
REPORT NUMBER: P1223954
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.1	1088.4	2216.5
	% Fixture	12.8	12.4	25.2
Street Side	Lumens	3962.5	2618.6	6581.1
	% Fixture	45.0	29.8	74.8
Total	Lumens	5090.6	3707.0	8797.6
	% Fixture	57.9	42.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.2
10°-20°	76.9	0.9
20°-30°	202.3	2.3
30°-40°	393.1	4.5
40°-50°	612.5	7.0
50°-60°	808.0	9.2
60°-70°	948.8	10.8
70°-80°	1020.8	11.6
80°-90°	1015.0	11.5
90°-100°	943.7	10.7
100°-110°	828.5	9.4
110°-120°	681.4	7.7
120°-130°	513.0	5.8
130°-140°	347.7	4.0
140°-150°	210.5	2.4
150°-160°	113.3	1.3
160°-170°	53.3	0.6
170°-180°	15.5	0.2
0°-90°	5090.6	57.9
0°-180°	8797.6	100.0



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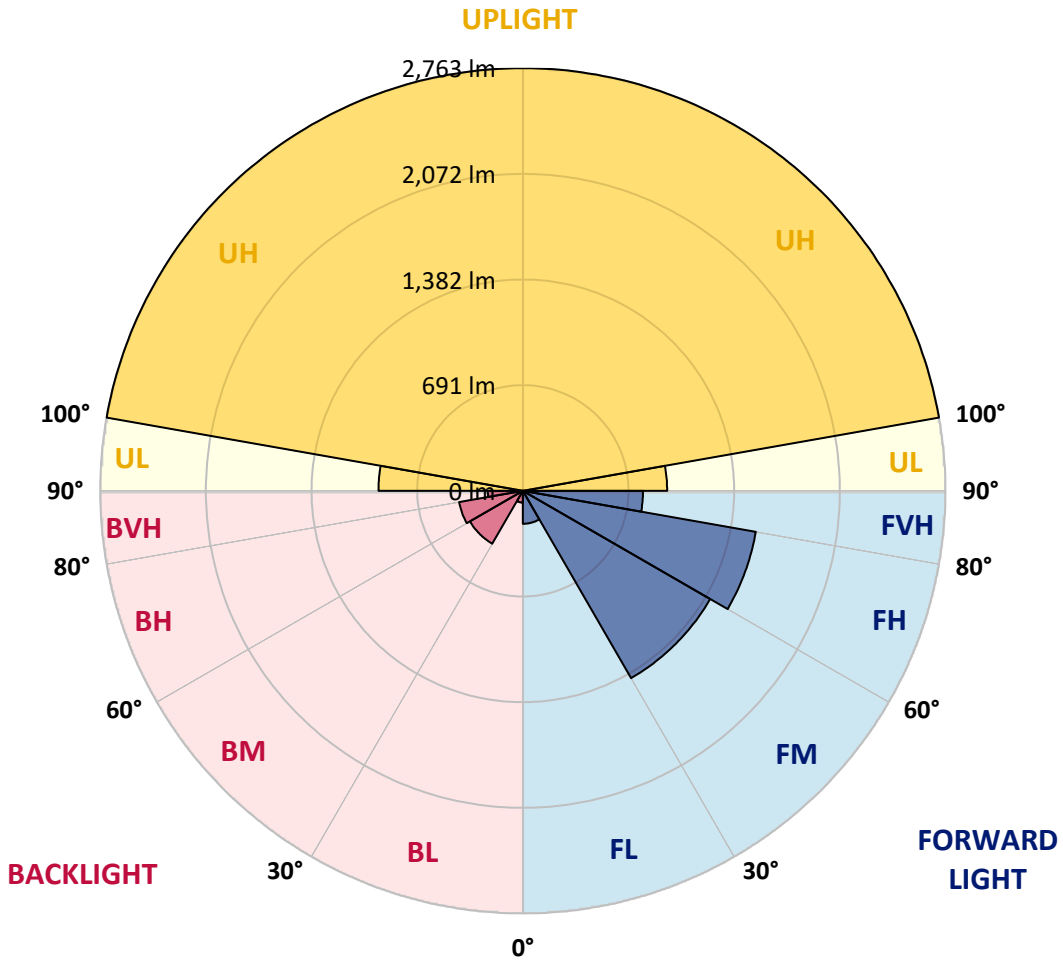
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	215.5	2.4			
FM	(30°-60°)	1414.4	16.1			
FH	(60°-80°)	1546.9	17.6			G1/1800
FVH	(80°-90°)	785.8	8.9			G5
BL	(0°-30°)	77.0	0.9	B0/110		
BM	(30°-60°)	399.2	4.5	B1/1000		
BH	(60°-80°)	422.7	4.8	B1/500		G1/500
BVH	(80°-90°)	229.2	2.6			G3/500
UL	(90°-100°)	943.7	10.7		U4/1000	
UH	(100°-180°)	2763.3	31.4		U5	

BUG Rating: B1-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*100.6*	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	*122.6*	123.2	122.6	122.6	123.9	122.6	121.3	116.8	111.6	105.1	101.9
5°	*171.6*	171.6	174.8	174.8	171.6	164.5	156.1	144.5	134.2	123.2	115.5
7.5°	*234.2*	235.5	232.9	226.4	222.6	208.4	200.0	185.1	172.2	157.4	150.3
10°	*299.3*	300.0	296.7	290.9	278.7	264.5	252.2	234.8	218.0	198.7	188.4
12.5°	*369.0*	367.7	361.9	349.0	341.9	325.8	309.6	291.6	269.0	245.1	232.9
15°	*435.4*	432.9	430.3	416.7	407.1	390.9	372.2	347.7	321.3	294.8	276.7
17.5°	*499.3*	493.5	489.6	483.2	468.3	454.1	430.3	401.2	372.9	338.0	319.3
20°	*567.7*	569.0	562.5	553.5	537.4	516.7	493.5	462.5	427.0	385.8	363.2
22.5°	*644.4*	644.4	640.6	629.0	612.2	585.7	558.6	526.4	482.5	439.3	411.6
25°	*729.6*	725.1	719.9	705.1	690.9	662.5	630.3	595.4	549.6	497.4	466.4
27.5°	*814.1*	812.2	807.0	790.9	772.8	743.1	710.9	665.7	616.1	554.8	522.5
30°	*903.8*	901.8	896.7	881.2	854.7	825.7	787.0	738.6	684.4	615.4	579.9
32.5°	*990.2*	990.2	983.8	967.6	939.9	905.1	863.8	809.6	749.6	678.6	636.1
35°	*1086.3*	1085.7	1074.1	1054.7	1021.2	990.9	944.4	887.6	819.9	738.6	693.5
37.5°	*1174.7*	1171.5	1159.9	1139.2	1108.3	1068.9	1016.7	954.1	884.4	798.0	747.0
40°	*1261.8*	1257.9	1247.6	1224.4	1187.0	1142.5	1088.9	1021.8	943.1	853.5	800.6
42.5°	*1340.5*	1339.2	1324.4	1296.6	1259.2	1208.9	1151.5	1080.5	1001.8	905.1	848.9
45°	*1412.1*	1412.1	1397.3	1366.9	1324.4	1273.4	1210.2	1137.3	1053.4	952.1	892.8
47.5°	*1479.8*	1479.8	1465.6	1430.8	1383.7	1327.6	1263.1	1187.6	1098.6	994.7	931.5
50°	*1541.1*	1538.5	1522.4	1483.7	1436.0	1377.3	1309.5	1230.2	1140.5	1032.8	968.9
52.5°	*1594.0*	1590.8	1572.1	1536.0	1482.4	1419.8	1348.9	1268.2	1174.7	1065.7	1000.5
55°	*1638.5*	1636.6	1618.5	1577.2	1521.1	1458.5	1383.1	1299.2	1207.0	1093.4	1027.6
57.5°	*1677.2*	1674.0	1652.7	1610.8	1554.7	1486.3	1410.2	1326.9	1231.5	1118.6	1050.2
60°	*1706.3*	1703.0	1681.1	1639.2	1582.4	1510.2	1434.0	1349.5	1252.8	1138.6	1068.9
62.5°	*1730.1*	1726.3	1705.0	1660.5	1601.1	1530.1	1452.1	1366.3	1269.5	1154.7	1085.0
65°	*1745.0*	1741.7	1721.1	1676.6	1615.3	1543.7	1465.6	1379.2	1283.1	1167.0	1097.3
67.5°	*1754.6*	1752.1	1730.8	1687.5	1626.3	1553.4	1474.0	1387.6	1292.1	1176.0	1106.3
70°	*1759.2*	*1756.6*	*1734.6*	*1690.8*	*1630.1*	*1557.2*	*1477.9*	*1391.5*	*1296.6*	*1182.4*	*1112.1*
71°	*1759.2*	1756.6	1735.3	1691.4	1630.8	1557.9	1478.5	1392.1	1297.3	1183.1	1112.8
72.5°	*1757.2*	1755.3	1734.0	1689.5	1628.8	1556.6	1476.6	1391.5	1297.3	1183.7	1114.1
75°	*1750.1*	1746.3	1725.6	1682.4	1622.4	1550.1	1470.8	1385.6	1293.4	1181.8	1112.8
77.5°	*1737.2*	1734.0	1712.7	1670.8	1610.8	1537.9	1459.2	1376.0	1285.7	1175.3	1107.6
80°	*1718.5*	1715.3	1694.6	1651.4	1592.1	1521.8	1443.1	1361.1	1272.1	1165.0	1098.6
82.5°	*1694.6*	1692.1	1672.1	1628.8	1570.1	1500.5	1421.8	1341.8	1257.3	1150.8	1085.7
85°	*1666.3*	1663.0	1641.1	1598.5	1542.4	1472.7	1396.0	1318.6	1236.0	1133.4	1070.2
87.5°	*1632.1*	1630.1	1608.2	1567.6	1511.4	1442.4	1368.9	1293.4	1212.1	1114.1	1052.8
90°	*1594.7*	1594.0	1570.8	1530.1	1474.7	1409.5	1336.6	1263.1	1184.4	1090.8	1031.5
92.5°	*1557.2*	1557.2	1534.0	1492.1	1437.3	1372.7	1303.7	1232.8	1157.9	1067.6	1010.9
95°	*1516.0*	1511.4	1489.5	1452.1	1397.3	1335.3	1268.9	1199.2	1127.0	1041.2	987.6
97.5°	*1467.6*	1466.3	1445.0	1405.0	1354.7	1295.3	1230.8	1166.3	1096.6	1014.1	963.1
100°	*1420.5*	1417.9	1397.9	1361.1	1309.5	1252.8	1192.1	1130.2	1064.4	986.3	937.3
102.5°	*1374.0*	1367.6	1346.9	1309.5	1264.4	1208.9	1152.1	1095.4	1030.9	956.7	910.9
105°	*1317.9*	1317.3	1296.0	1260.5	1214.7	1165.7	1112.1	1056.7	998.0	926.3	883.8
107.5°	*1263.1*	1263.1	1243.1	1208.2	1165.0	1117.9	1070.2	1017.9	963.8	894.7	856.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1207.0*	1206.3	1188.3	1157.3	1116.0	1070.8	1027.0	979.2	925.1	864.4	826.4
112.5°	*1151.5*	1150.2	1132.8	1101.2	1063.1	1026.3	982.5	938.6	888.9	832.8	796.7
115°	*1095.4*	1094.1	1075.4	1047.6	1012.8	974.7	938.0	896.0	852.8	796.7	765.1
117.5°	*1037.3*	1036.0	1020.5	993.4	960.5	930.2	893.4	857.3	813.5	762.5	730.9
120°	*978.0*	978.6	963.1	938.6	908.3	879.9	847.6	814.7	774.1	725.7	695.4
122.5°	*921.8*	917.3	907.0	885.1	858.0	831.5	804.4	770.9	732.8	687.0	660.6
125°	*861.8*	860.5	850.2	828.3	805.1	784.4	759.3	728.9	694.1	647.7	623.8
127.5°	*803.8*	805.7	794.1	778.0	755.4	738.0	712.2	685.7	652.2	610.3	587.7
130°	*749.6*	748.3	741.9	725.1	706.4	688.3	669.0	645.1	613.5	571.5	550.9
132.5°	*699.3*	693.5	687.7	673.5	658.0	643.2	626.4	602.5	570.3	533.5	515.4
135°	*644.4*	644.4	635.4	623.2	612.2	598.0	581.2	559.3	531.6	499.3	478.7
137.5°	*594.1*	591.5	585.7	576.1	565.7	555.4	541.2	519.3	494.8	463.8	445.8
140°	*546.4*	544.5	539.3	530.9	522.5	512.8	499.9	481.2	458.7	429.0	413.5
142.5°	*496.7*	498.0	493.5	487.7	478.0	471.6	459.9	443.2	423.2	397.4	382.5
145°	*452.2*	452.9	450.9	445.1	438.0	431.6	419.3	407.1	387.7	364.5	353.5
147.5°	*415.4*	412.9	409.0	405.8	399.3	394.1	384.5	372.9	354.8	334.8	324.5
150°	*374.2*	376.1	372.2	368.3	364.5	357.4	350.3	340.6	323.8	307.7	296.7
152.5°	*339.3*	340.6	337.4	335.4	331.6	325.8	318.7	309.6	296.7	282.5	272.2
155°	*308.4*	308.4	308.4	305.8	301.3	297.4	290.3	281.9	270.9	258.0	250.9
157.5°	*280.0*	280.6	280.6	277.4	274.2	270.9	265.1	258.0	248.4	237.4	232.2
160°	*257.4*	256.1	255.5	252.9	250.3	247.7	242.6	236.7	228.4	219.3	214.8
162.5°	*234.8*	234.8	233.5	231.6	229.7	225.8	222.6	216.7	210.9	204.5	199.3
165°	*217.4*	216.7	216.7	214.2	212.2	209.0	205.8	201.9	196.8	190.9	187.1
167.5°	*202.6*	201.3	200.6	199.3	196.8	194.8	191.6	188.4	184.5	180.6	177.4
170°	*188.4*	189.0	187.7	186.4	185.1	183.2	180.6	178.0	174.8	170.9	169.7
172.5°	*178.7*	178.0	177.4	176.1	174.8	172.9	171.6	169.0	167.1	164.5	163.2
175°	*169.7*	169.7	169.0	167.7	166.4	165.1	163.9	162.6	161.3	159.3	158.7
177.5°	*162.6*	162.6	162.6	161.3	160.6	160.0	158.7	158.0	157.4	156.1	156.1
180°	*155.5*	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6	100.6
2.5°	98.7	90.3	83.2	76.8	71.6	67.1	64.5	60.0	56.8	54.8
5°	111.0	98.7	88.4	78.1	70.3	61.9	53.5	45.2	40.0	39.4
7.5°	140.6	127.1	111.6	98.1	82.6	69.7	58.7	50.3	47.1	46.4
10°	178.0	158.0	137.4	117.4	97.4	81.3	69.7	61.9	58.1	57.4
12.5°	219.3	192.2	165.8	140.0	116.1	98.1	83.9	74.8	70.3	70.3
15°	261.9	228.4	194.8	163.2	135.5	112.9	95.5	83.9	78.7	78.1
17.5°	299.3	261.3	221.3	183.8	150.3	121.9	101.3	87.1	80.6	80.0
20°	341.9	293.5	247.7	201.3	161.9	129.0	104.5	88.4	80.0	79.3
22.5°	387.1	332.2	275.5	221.3	174.2	136.1	107.7	89.7	80.6	79.3
25°	438.0	372.2	303.8	241.3	186.4	142.6	111.0	91.0	81.3	80.0
27.5°	486.4	413.5	334.2	260.0	197.4	148.4	113.5	92.2	81.9	80.6
30°	538.0	454.1	363.8	280.0	209.0	154.2	116.1	92.9	81.9	80.6
32.5°	590.3	493.5	394.8	298.0	218.7	158.0	117.4	93.5	82.6	81.3
35°	645.7	536.1	423.8	316.7	227.7	161.9	118.7	94.2	82.6	81.3
37.5°	696.7	576.7	452.2	332.9	235.5	165.1	120.0	94.2	83.2	81.9
40°	742.5	613.5	477.4	347.1	241.9	167.1	120.6	94.8	83.9	82.6
42.5°	787.7	649.6	499.9	358.7	247.1	168.4	121.3	95.5	84.5	83.2
45°	827.6	679.9	520.6	369.6	250.9	169.7	121.9	96.1	85.2	83.9
47.5°	863.1	708.3	539.9	378.7	253.5	170.3	122.6	96.8	86.4	85.2
50°	897.3	735.4	554.8	385.8	256.1	170.9	122.6	98.1	88.4	87.1
52.5°	926.3	757.3	568.3	391.6	257.4	171.6	123.9	99.3	89.7	89.0
55°	951.5	776.7	580.6	396.1	258.7	171.6	125.1	101.3	92.2	91.0
57.5°	972.1	792.2	589.0	398.7	258.7	172.2	125.8	103.9	94.8	93.5
60°	990.2	805.7	596.7	401.9	259.3	172.9	127.7	106.4	98.1	97.4
62.5°	1005.0	816.0	602.5	403.8	260.0	174.8	130.3	109.7	101.3	100.6
65°	1016.7	825.1	607.0	405.1	260.6	176.1	132.9	112.9	105.8	105.1
67.5°	1024.4	831.5	610.3	405.8	261.3	178.0	136.1	117.4	110.3	109.0
70°	*1030.2*	*835.4*	*612.2*	*406.4*	*262.6*	*180.0*	*140.0*	*121.3*	*114.8*	*114.2*
71°	1031.5	836.0	612.8	406.4	263.2	181.3	141.3	123.2	116.8	116.1
72.5°	1032.1	836.7	612.8	406.4	263.8	183.2	143.9	126.4	120.0	119.3
75°	1031.5	836.0	612.2	406.4	265.1	186.4	148.4	131.0	125.1	124.5
77.5°	1027.0	833.5	610.3	406.4	267.1	190.3	153.5	137.4	131.0	130.3
80°	1019.2	828.3	607.0	405.8	269.0	194.8	158.7	143.2	136.8	136.1
82.5°	1008.9	820.6	602.5	405.8	271.6	198.7	163.9	148.4	143.2	142.6
85°	995.4	811.5	598.0	405.1	274.8	203.8	170.3	155.5	150.3	149.0
87.5°	979.2	800.6	592.8	405.1	278.0	209.7	176.8	161.9	156.8	155.5
90°	961.2	788.3	587.7	405.1	281.9	215.5	183.8	169.0	163.2	162.6
92.5°	943.1	776.7	582.5	405.8	287.1	221.9	190.9	176.8	170.9	170.9
95°	922.5	762.5	576.7	407.1	292.2	229.0	199.3	184.5	178.7	178.0
97.5°	901.8	749.6	572.2	409.0	298.0	237.4	207.1	192.9	187.1	185.8
100°	878.6	736.0	567.7	411.6	305.1	245.1	215.5	201.3	195.5	194.8
102.5°	856.0	721.2	562.5	414.8	312.2	254.2	224.5	209.7	203.8	203.2
105°	831.5	705.7	556.7	417.4	319.3	262.6	232.9	217.4	210.9	210.9
107.5°	807.6	689.6	550.9	420.6	326.4	270.9	240.6	225.1	218.0	217.4

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

Scaled Data Report

REPORT NUMBER: P1223954
CATALOG NUMBER: FFX-CLB-60-740-U-VM9-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	780.6	672.2	543.8	422.5	332.9	278.0	247.7	230.9	223.8	223.2
112.5°	756.0	653.5	536.1	423.2	338.7	284.5	253.5	236.1	229.0	227.7
115°	725.1	634.1	525.7	421.9	341.9	289.6	257.4	239.3	231.6	230.3
117.5°	695.4	612.2	514.8	418.7	343.8	292.2	260.0	241.3	232.9	231.6
120°	665.1	587.7	499.3	412.9	341.9	292.2	260.0	240.0	231.6	230.9
122.5°	630.9	561.9	483.2	404.5	338.7	289.6	257.4	238.0	229.0	228.4
125°	595.4	534.1	463.8	392.9	332.2	285.8	253.5	234.2	225.1	224.5
127.5°	561.2	505.7	443.8	379.3	323.2	279.3	248.4	228.4	219.3	218.0
130°	527.7	476.1	421.2	363.2	312.2	270.9	241.3	222.6	213.5	212.2
132.5°	492.8	447.7	398.7	347.7	300.6	261.9	233.5	215.5	207.1	205.8
135°	459.9	418.0	374.2	329.0	287.1	251.6	225.1	208.4	200.0	199.3
137.5°	428.3	390.3	351.6	310.9	273.5	241.3	216.7	201.3	193.5	192.2
140°	396.1	363.2	328.3	293.5	258.7	230.3	208.4	193.5	186.4	185.1
142.5°	368.3	337.4	306.4	274.2	244.5	218.7	199.3	185.8	180.0	179.3
145°	339.3	312.2	284.5	256.7	230.9	208.4	190.9	179.3	173.5	172.9
147.5°	313.5	287.7	263.8	240.0	217.4	197.4	182.6	172.9	168.4	167.7
150°	287.1	266.4	245.8	223.8	204.5	187.7	175.5	167.1	162.6	161.9
152.5°	263.8	246.4	227.7	210.9	192.9	179.3	169.0	161.3	158.0	157.4
155°	243.8	229.0	213.5	198.0	183.8	172.9	163.9	157.4	154.8	154.8
157.5°	226.4	213.5	200.6	187.7	176.1	166.4	159.3	154.8	152.2	151.6
160°	209.7	199.3	187.7	178.0	169.0	161.9	156.1	152.2	150.3	149.7
162.5°	196.1	187.1	179.3	170.9	163.9	158.0	153.5	150.3	149.0	149.0
165°	184.5	178.0	170.9	165.1	159.3	154.8	151.6	149.7	148.4	148.4
167.5°	175.5	169.7	165.1	160.0	156.1	152.9	150.3	149.0	148.4	147.7
170°	167.7	163.9	160.0	156.8	153.5	151.6	149.7	149.0	148.4	148.4
172.5°	161.9	159.3	156.8	154.2	152.2	150.3	149.7	149.0	149.0	149.0
175°	157.4	156.1	154.2	152.9	151.6	151.0	150.3	150.3	150.3	150.3
177.5°	155.5	154.2	153.5	152.9	152.2	152.2	152.2	152.9	152.9	152.9
180°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5

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

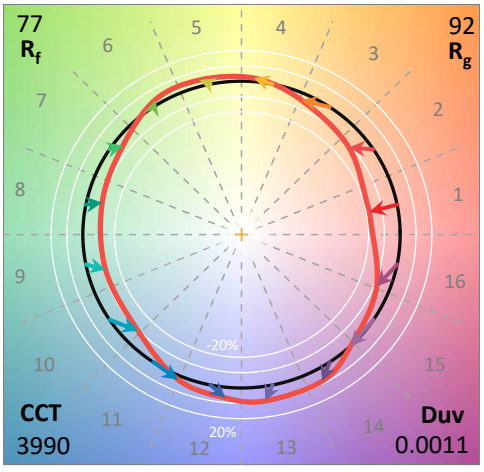
Test Information

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

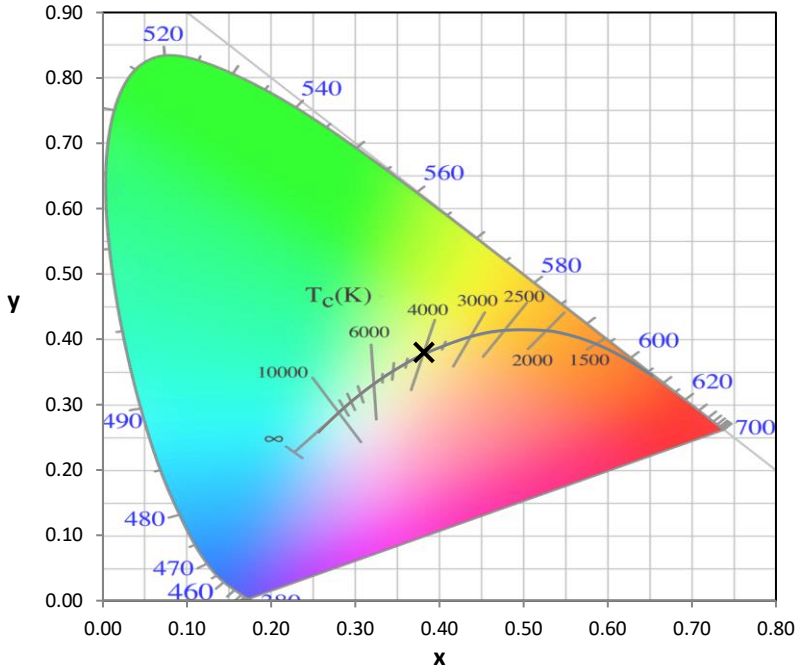
Stabilization Time:	70M
Operation Time:	2H 10M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2501-332-1

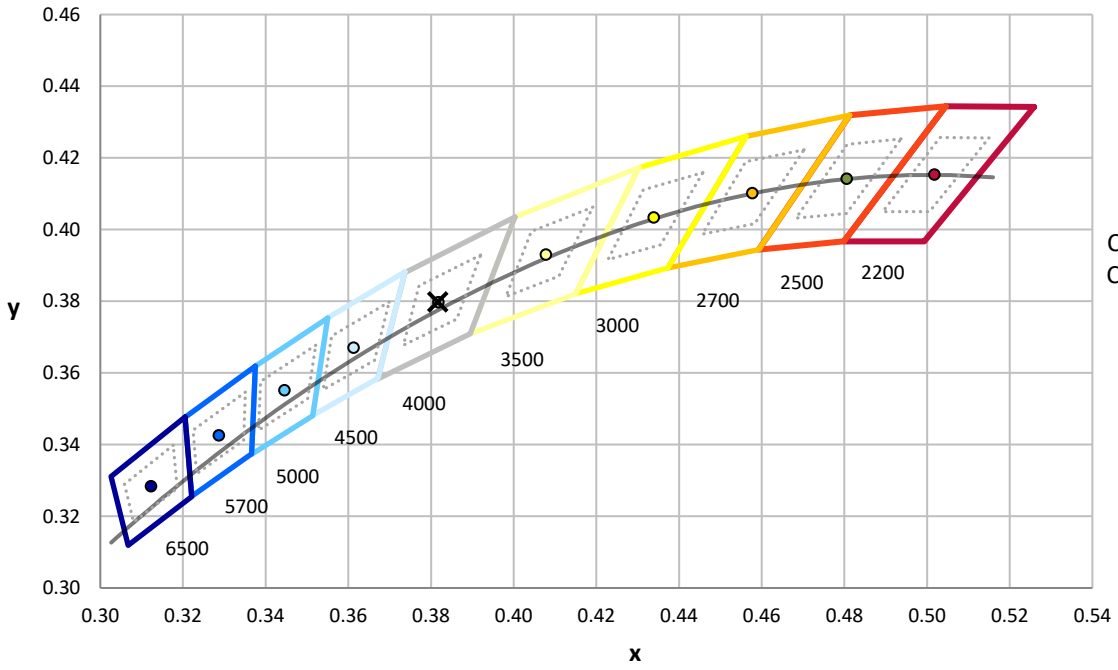
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

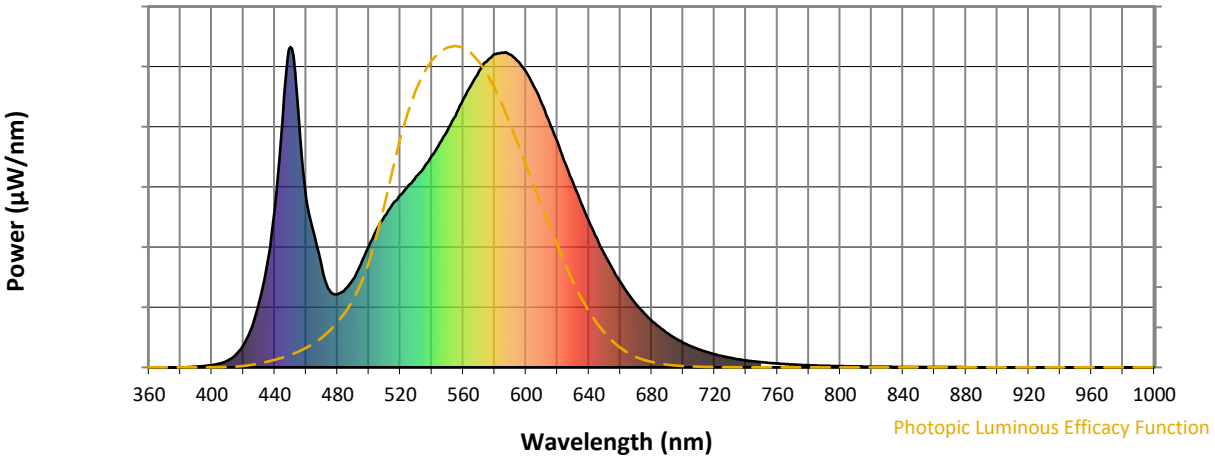


CCT = 3990K
CIE x = 0.3816
CIE y = 0.3798
Duv = 0.0011

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-1

Photopic Flux vs. Wavelength

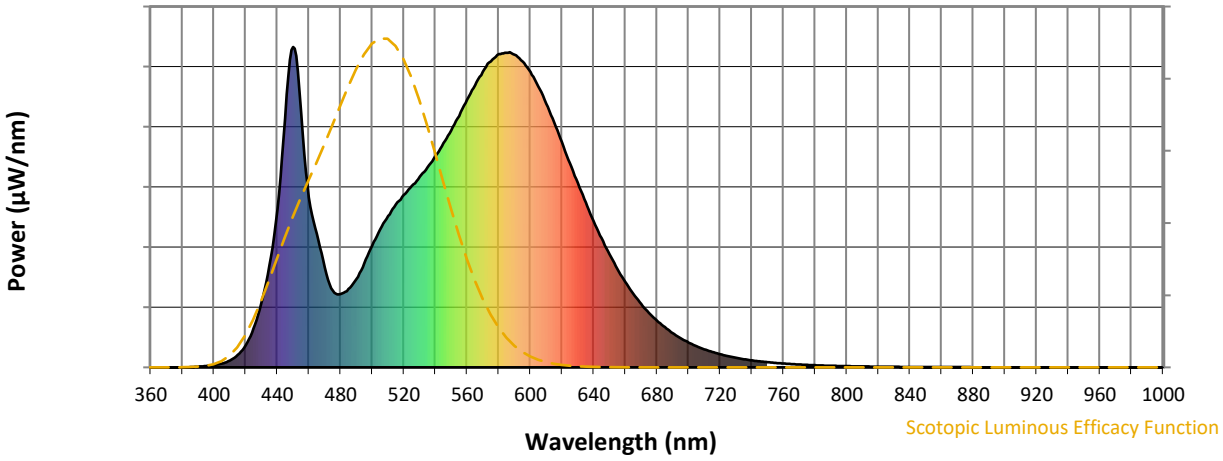


Photopic Lumens: NR

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

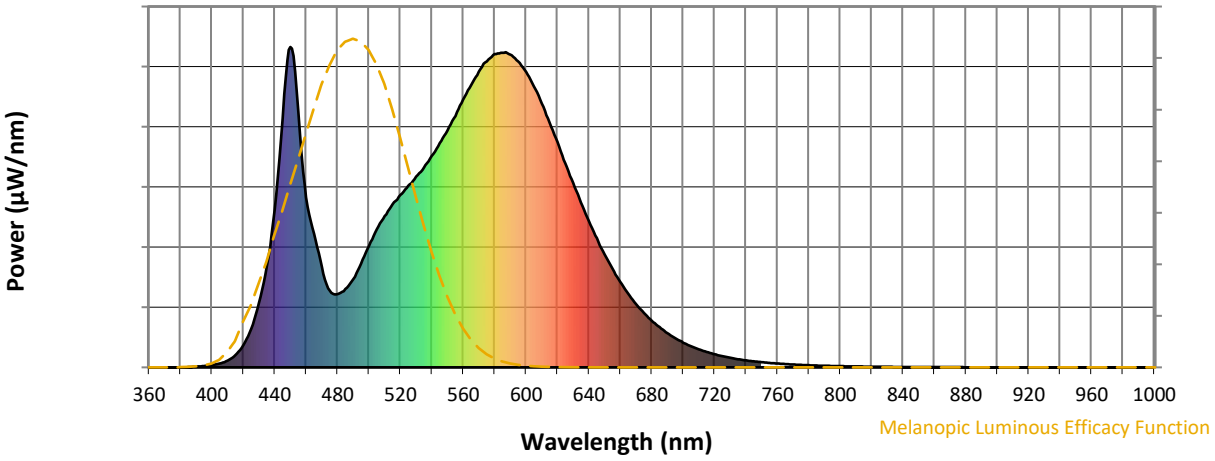


Scotopic Lumens: NR **S/P: 1.59**

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			

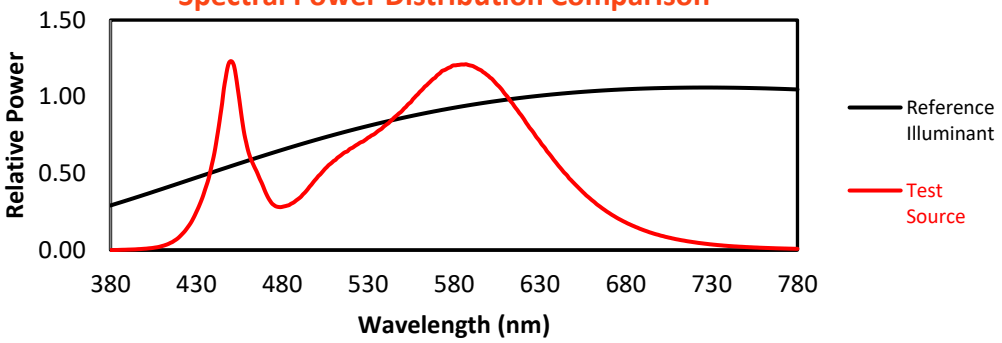
REPORT NUMBER: SP1-2501-332-1

TM-30-18

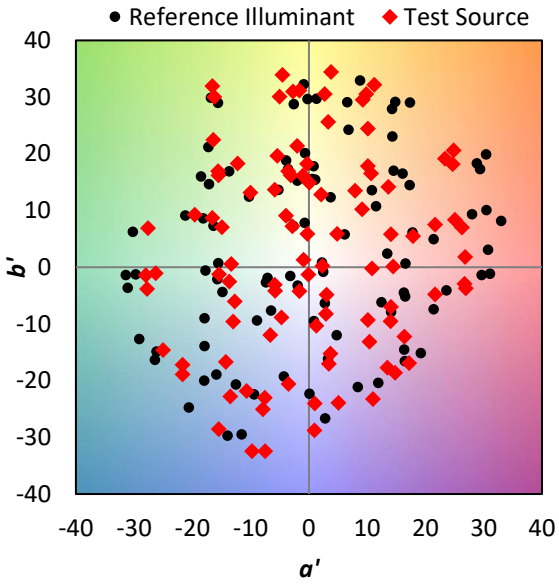
Summary

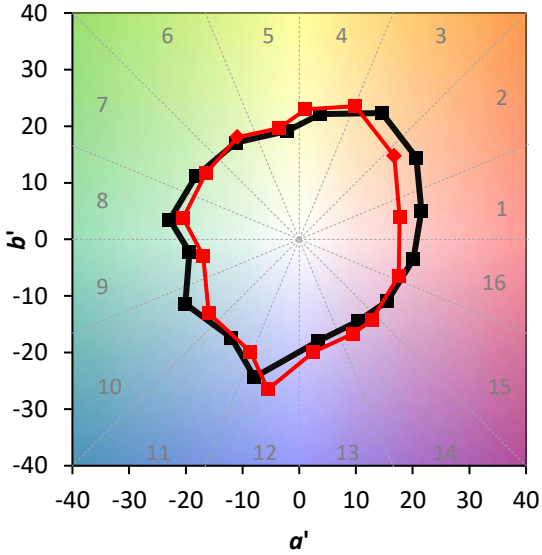
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R_g = 91.9
CIE R_a = 73.9
R_9 = -36.4

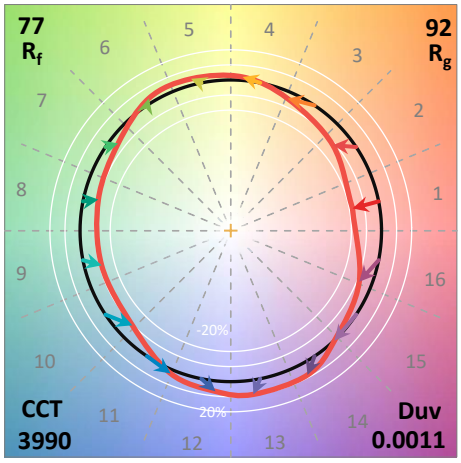
Spectral Power Distribution Comparison

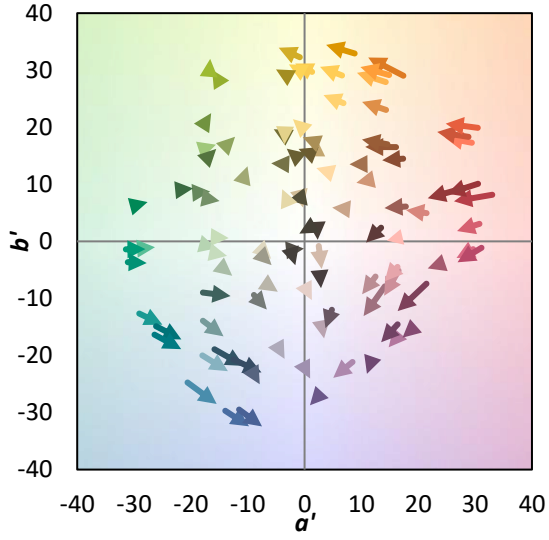


Color Vector Graphics







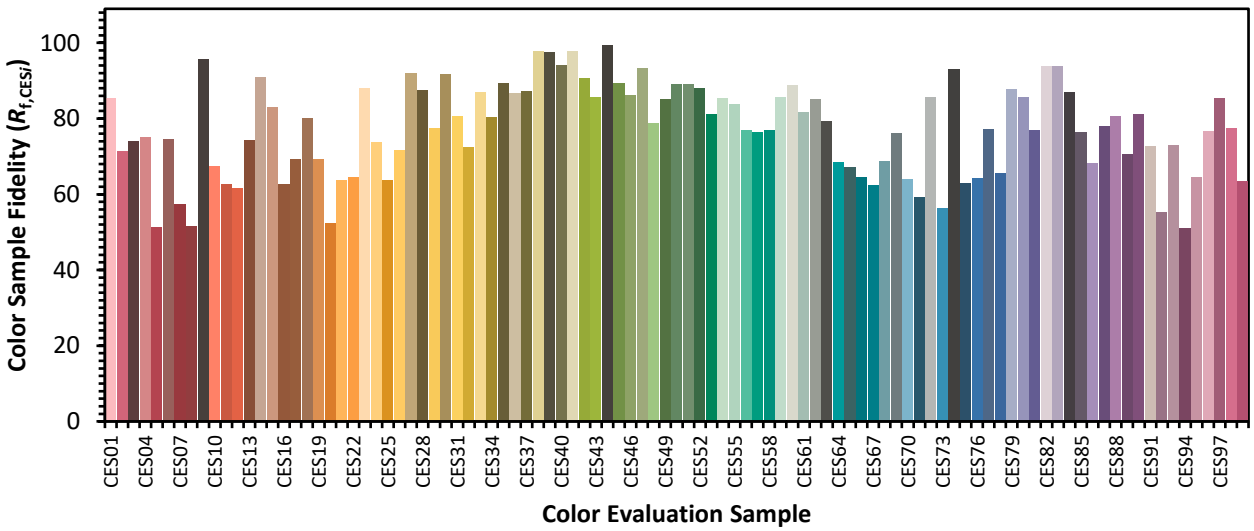


REPORT NUMBER: SP1-2501-332-1

TM-30-18

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

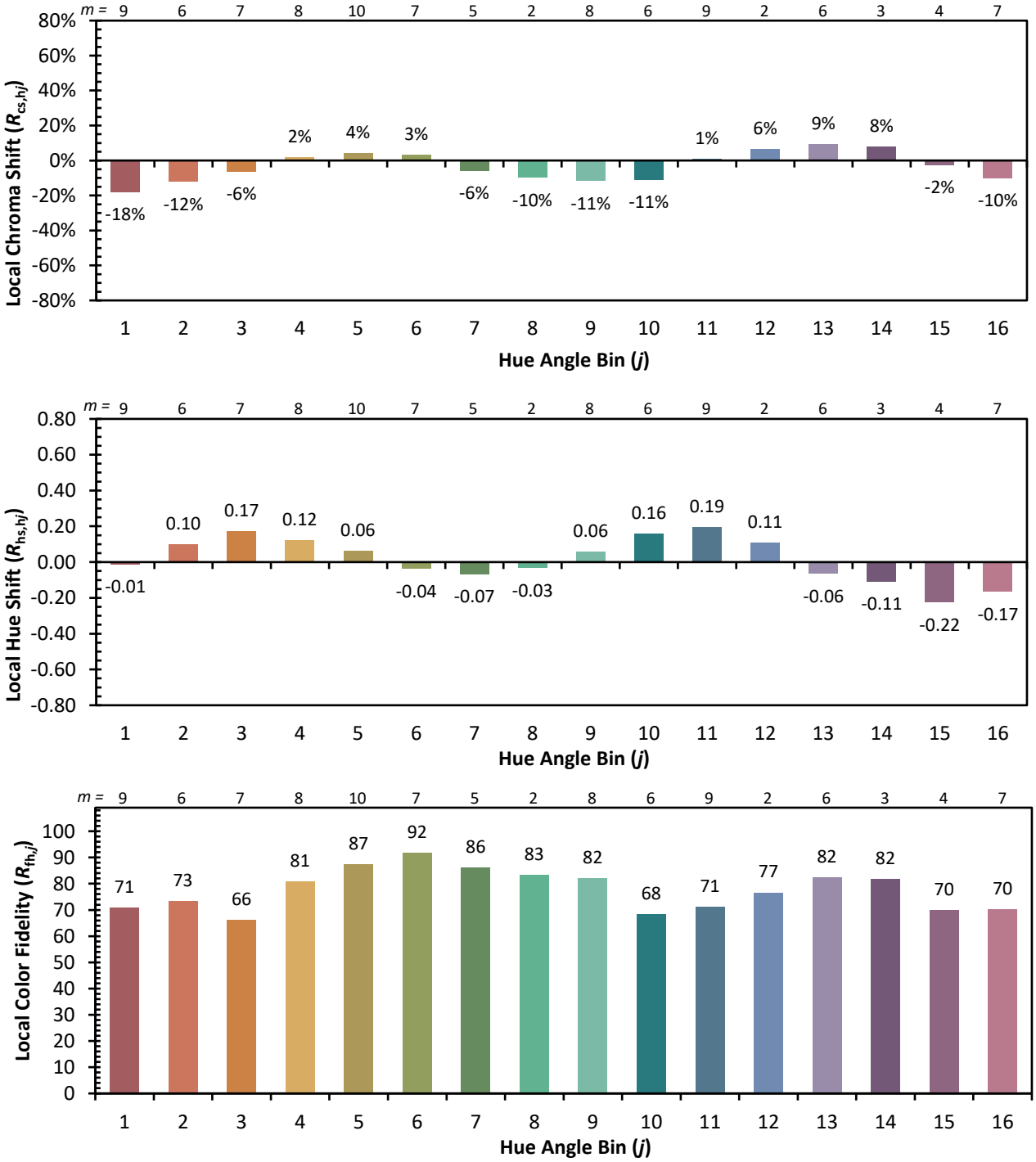
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CES02 = 61	CES27 = 92	CES52 = 88	CES77 = 77
CES03 = 30	CES28 = 88	CES53 = 81	CES78 = 65
CES04 = 70	CES29 = 78	CES54 = 85	CES79 = 88
CES05 = 47	CES30 = 92	CES55 = 84	CES80 = 86
CES06 = 50	CES31 = 81	CES56 = 77	CES81 = 77
CES07 = 40	CES32 = 72	CES57 = 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	



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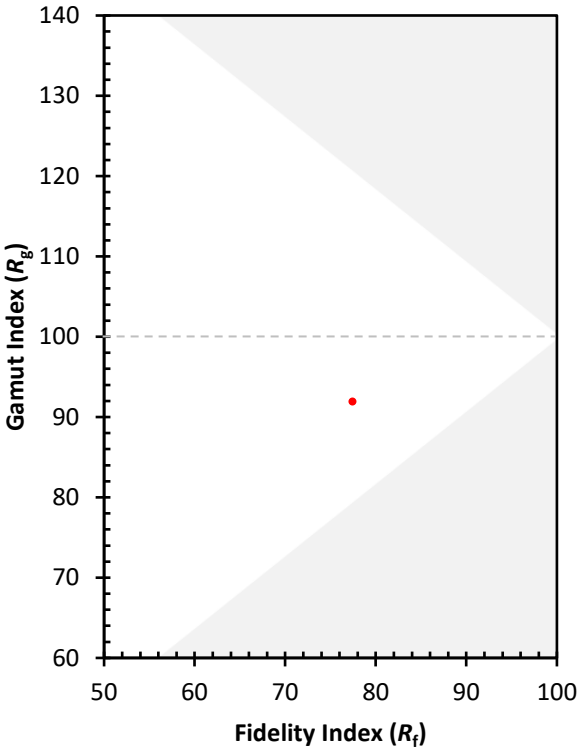
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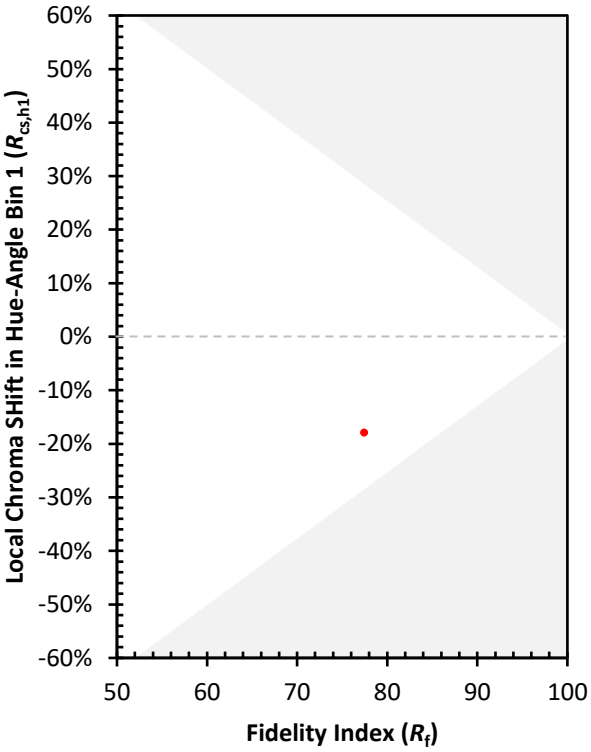


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Measure Comparisons





(END OF REPORT)