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: P1045860

Luminaire Tested: **FFX-CLB-80-750-U-VM8-T5-HSS**

Issue Date: 07/01/2025

Report Generated By 670347003

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P1045860
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	07/01/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-750-U-VM8-T5-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source:	(6) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9040.7 lumens
Efficiency:	N/A
Efficacy:	110.5 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):	81.8
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.01%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

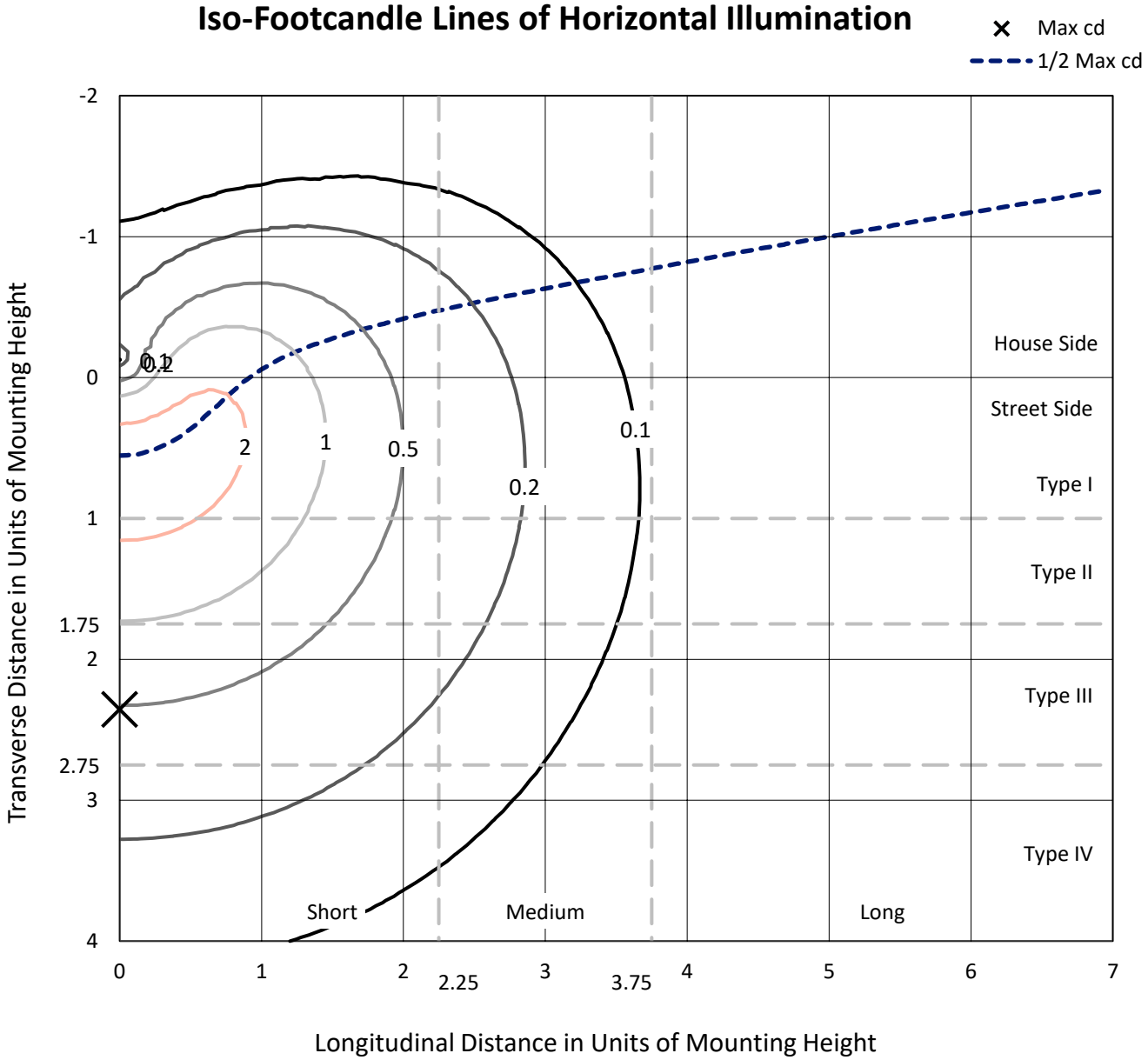


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REPORT NUMBER: P1045860
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Iso-Footcandle Lines of Horizontal Illumination



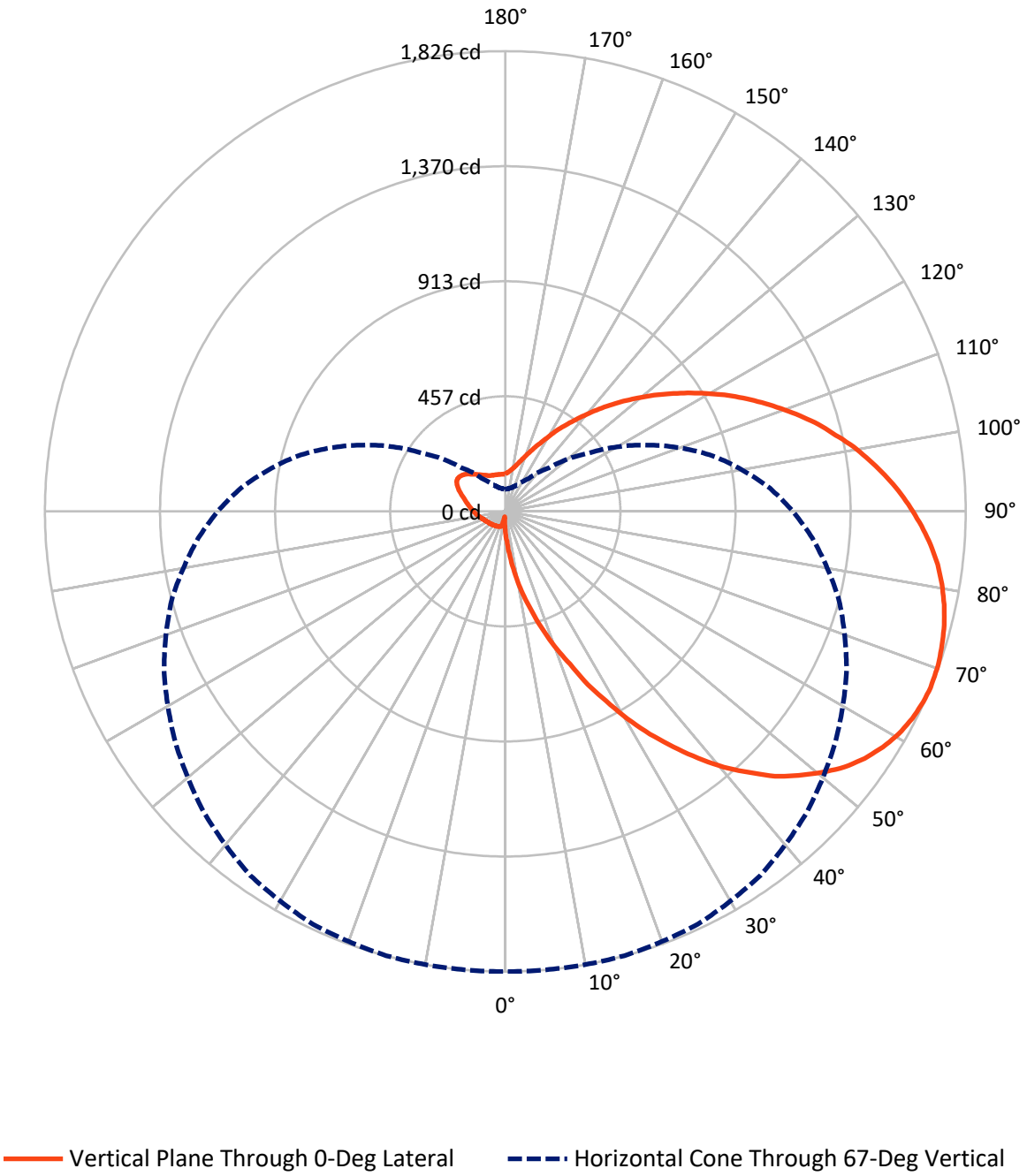
Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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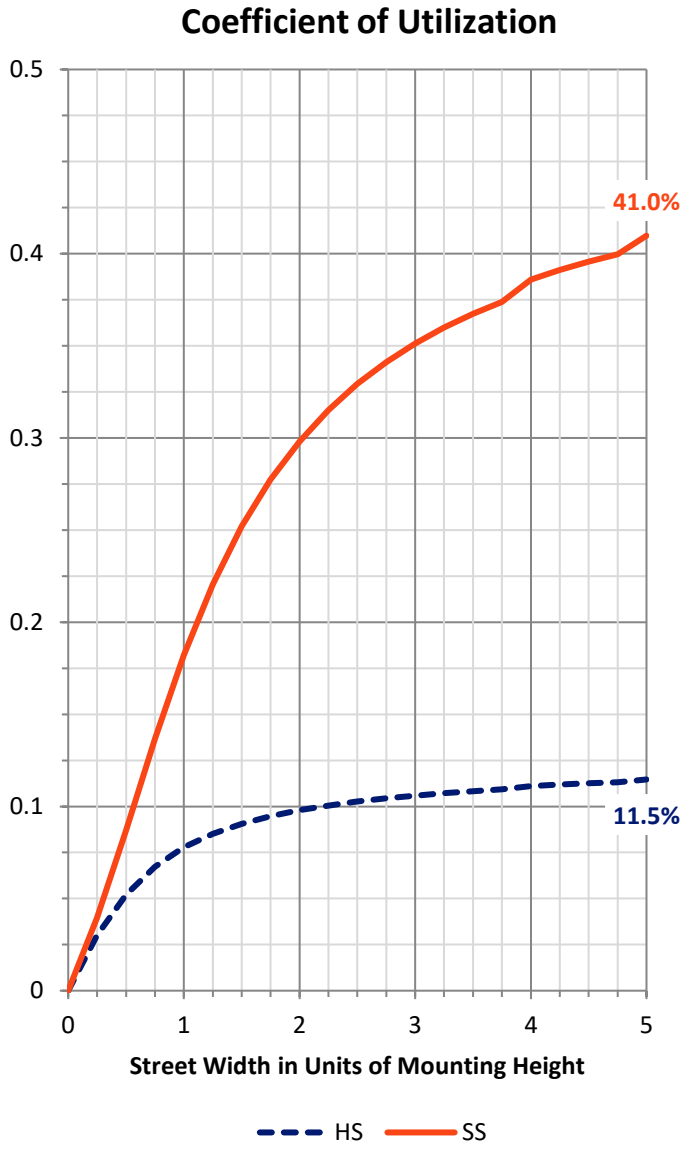
REPORT NUMBER: P1045860
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.5	1066.6	2186.1
	% Fixture	12.4	11.8	24.2
Street Side	Lumens	4221.4	2633.2	6854.6
	% Fixture	46.7	29.1	75.8
Total	Lumens	5340.9	3699.8	9040.7
	% Fixture	59.1	40.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.1
10°-20°	75.1	0.8
20°-30°	209.7	2.3
30°-40°	419.7	4.6
40°-50°	659.6	7.3
50°-60°	867.3	9.6
60°-70°	1001.4	11.1
70°-80°	1056.8	11.7
80°-90°	1039.3	11.5
90°-100°	953.9	10.6
100°-110°	825.0	9.1
110°-120°	677.2	7.5
120°-130°	516.3	5.7
130°-140°	347.7	3.8
140°-150°	206.1	2.3
150°-160°	108.4	1.2
160°-170°	50.5	0.6
170°-180°	14.7	0.2
0°-90°	5340.9	59.1
0°-180°	9040.7	100.0



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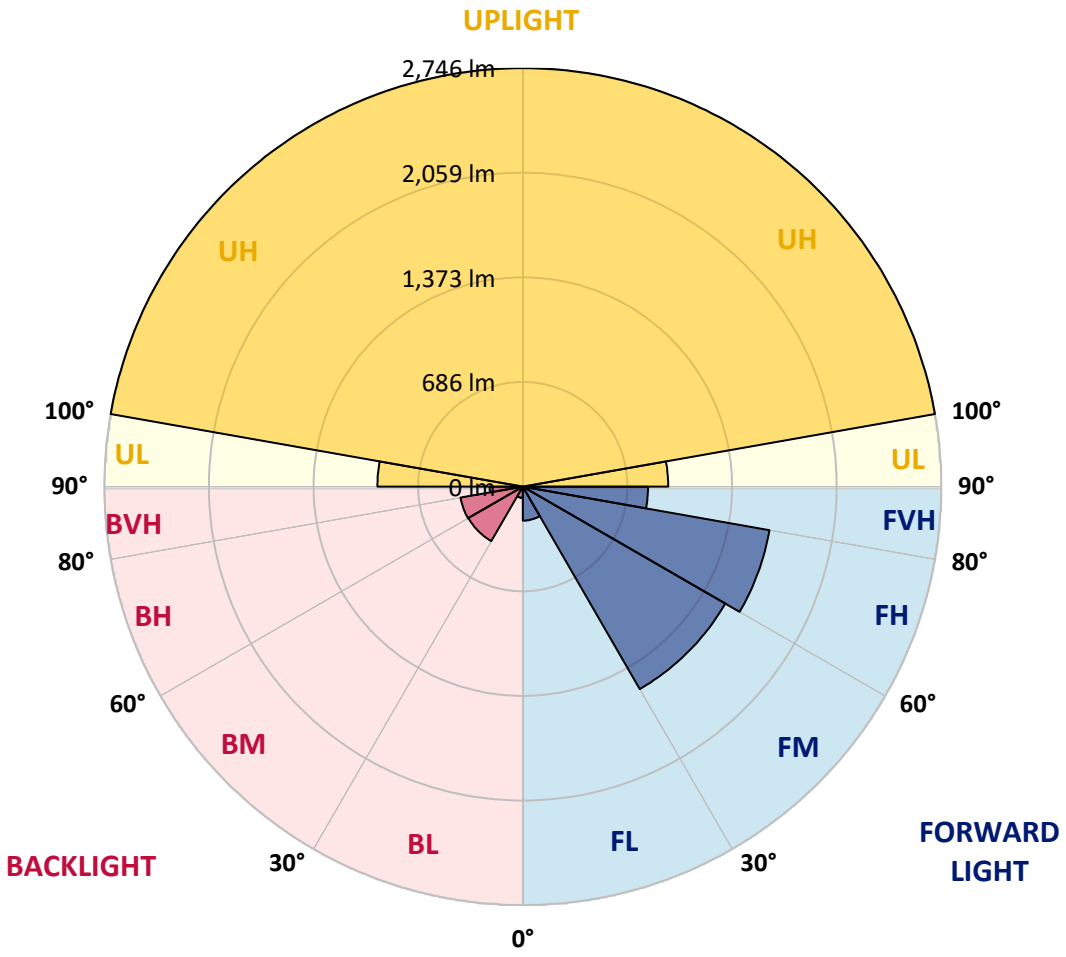
Scaled Data Report

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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	223.1	2.5			
FM	(30°-60°)	1533.8	17.0			
FH	(60°-80°)	1643.1	18.2			G1/1800
FVH	(80°-90°)	821.3	9.1			G5
BL	(0°-30°)	73.7	0.8	B0/110		
BM	(30°-60°)	412.8	4.6	B1/1000		
BH	(60°-80°)	415.0	4.6	B1/500		G1/500
BVH	(80°-90°)	218.0	2.4			G2/225
UL	(90°-100°)	953.9	10.6		U4/1000	
UH	(100°-180°)	2745.9	30.4		U5	

BUG Rating: B1-U5-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
0°	*88.0*	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
2.5°	*116.7*	118.7	118.7	117.7	116.7	114.7	112.8	108.8	100.9	95.0	89.0
5°	*169.1*	169.1	170.1	169.1	165.2	161.2	152.3	145.4	132.5	122.7	111.8
7.5°	*229.5*	232.4	231.5	228.5	221.6	212.7	201.8	188.9	176.1	161.2	144.4
10°	*296.7*	295.8	295.8	291.8	283.9	272.0	260.1	245.3	226.5	207.7	186.0
12.5°	*360.0*	363.0	361.0	356.1	346.2	337.3	322.5	305.6	283.9	264.1	234.4
15°	*428.3*	430.3	430.3	427.3	418.4	405.5	388.7	372.9	344.2	316.5	287.8
17.5°	*506.4*	503.5	499.5	499.5	488.6	477.8	460.9	439.2	407.5	376.9	338.3
20°	*584.6*	583.6	578.6	575.7	568.8	552.9	531.2	506.4	474.8	440.2	394.7
22.5°	*657.8*	667.7	666.7	661.7	652.8	637.0	613.3	583.6	551.0	507.4	455.0
25°	*761.6*	755.7	756.7	751.7	743.8	725.0	701.3	666.7	627.1	578.6	519.3
27.5°	*851.6*	849.7	849.7	846.7	835.8	816.0	788.3	755.7	710.2	652.8	586.6
30°	*955.5*	950.6	948.6	945.6	934.7	913.0	884.3	843.7	794.3	735.9	657.8
32.5°	*1053.4*	1049.5	1042.6	1041.6	1033.7	1010.9	978.3	936.7	880.3	812.1	726.0
35°	*1147.4*	1149.4	1146.4	1141.5	1130.6	1108.8	1077.2	1026.7	971.3	892.2	799.2
37.5°	*1242.4*	1241.4	1243.3	1239.4	1222.6	1201.8	1164.2	1110.8	1047.5	961.4	863.5
40°	*1335.3*	1330.4	1329.4	1325.4	1313.6	1292.8	1250.3	1195.9	1124.7	1035.6	924.8
42.5°	*1415.5*	1417.4	1415.5	1411.5	1395.7	1371.9	1327.4	1267.1	1191.9	1096.0	982.2
45°	*1499.5*	1496.6	1495.6	1495.6	1474.8	1450.1	1401.6	1339.3	1255.2	1152.3	1031.7
47.5°	*1565.8*	1569.8	1567.8	1562.8	1549.0	1518.3	1466.9	1398.6	1310.6	1204.8	1076.2
50°	*1628.1*	1633.1	1634.1	1629.1	1612.3	1578.7	1525.3	1449.1	1360.1	1248.3	1114.8
52.5°	*1685.5*	1684.5	1687.5	1684.5	1668.7	1634.1	1572.7	1495.6	1399.6	1284.9	1144.4
55°	*1730.0*	1730.0	1732.0	1728.0	1713.2	1674.6	1611.3	1529.2	1431.3	1313.6	1170.2
57.5°	*1765.6*	1767.6	1766.6	1765.6	1748.8	1708.2	1641.0	1555.9	1457.0	1334.3	1188.9
60°	*1793.3*	1794.3	1794.3	1792.3	1775.5	1733.0	1664.7	1576.7	1473.8	1352.2	1203.8
62.5°	*1811.1*	1812.1	1812.1	1810.1	1793.3	1749.8	1680.5	1589.5	1485.7	1363.0	1213.7
65°	*1822.0*	1823.0	1823.0	1821.0	1804.2	1759.7	1688.5	1596.5	1491.6	1369.0	1219.6
67°	*1826.0*	*1826.0*	*1826.0*	*1825.0*	*1807.2*	*1763.6*	*1690.4*	*1597.5*	*1493.6*	*1370.9*	*1222.6*
67.5°	*1825.0*	1825.0	1826.0	1824.0	1807.2	1762.6	1689.5	1597.5	1492.6	1370.9	1222.6
70°	*1822.0*	1822.0	1822.0	1820.0	1803.2	1758.7	1685.5	1592.5	1489.6	1369.0	1221.6
72.5°	*1811.1*	1812.1	1812.1	1810.1	1793.3	1749.8	1676.6	1583.6	1481.7	1363.0	1218.6
75°	*1798.3*	1798.3	1798.3	1796.3	1779.5	1735.9	1663.7	1571.7	1471.8	1355.1	1212.7
77.5°	*1779.5*	1779.5	1779.5	1777.5	1760.7	1718.1	1646.9	1556.9	1459.0	1344.2	1205.8
80°	*1755.7*	1756.7	1755.7	1753.7	1736.9	1694.4	1626.1	1538.1	1442.2	1331.4	1195.9
82.5°	*1728.0*	1729.0	1728.0	1724.1	1708.2	1667.7	1599.4	1513.4	1422.4	1314.6	1184.0
85°	*1692.4*	1691.4	1692.4	1686.5	1672.6	1632.1	1569.8	1485.7	1397.7	1294.8	1167.2
87.5°	*1651.9*	1652.9	1650.9	1647.9	1631.1	1591.5	1532.2	1454.0	1369.0	1271.0	1147.4
90°	*1607.4*	1607.4	1606.4	1602.4	1584.6	1549.0	1492.6	1417.4	1338.3	1244.3	1126.6
92.5°	*1561.9*	1560.9	1557.9	1555.9	1540.1	1503.5	1449.1	1381.8	1307.6	1217.6	1104.9
95°	*1511.4*	1511.4	1509.4	1505.5	1487.7	1458.0	1405.6	1342.3	1272.0	1188.9	1082.1
97.5°	*1458.0*	1457.0	1456.0	1450.1	1434.3	1404.6	1362.0	1300.7	1236.4	1158.3	1056.4
100°	*1405.6*	1402.6	1400.6	1394.7	1380.8	1352.2	1311.6	1258.2	1195.9	1124.7	1028.7
102.5°	*1344.2*	1344.2	1343.3	1337.3	1319.5	1295.8	1259.2	1211.7	1158.3	1090.0	999.0
105°	*1289.8*	1284.9	1282.9	1277.0	1263.1	1237.4	1206.8	1165.2	1115.7	1052.4	969.4
107.5°	*1228.5*	1224.6	1223.6	1214.7	1203.8	1180.0	1154.3	1115.7	1074.2	1017.8	938.7

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CATALOG NUMBER: FFX-CLB-80-750-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	25°	35°	45°	55°	65°	75°	85°
110°	*1166.2*	1164.2	1163.2	1154.3	1140.5	1124.7	1097.9	1067.3	1030.7	979.2	910.0
112.5°	*1104.9*	1102.9	1102.9	1096.0	1083.1	1063.3	1044.5	1017.8	985.2	940.7	876.4
115°	*1044.5*	1041.6	1040.6	1032.7	1019.8	1005.0	986.2	967.4	939.7	902.1	843.7
117.5°	*984.2*	980.2	981.2	974.3	964.4	949.6	931.8	918.9	895.2	860.6	811.1
120°	*921.9*	922.9	922.9	914.0	905.1	893.2	878.4	865.5	849.7	819.0	773.5
122.5°	*862.5*	864.5	864.5	858.6	847.7	836.8	826.9	815.1	801.2	777.5	736.9
125°	*803.2*	807.1	805.2	800.2	791.3	779.4	772.5	762.6	751.7	732.0	696.4
127.5°	*748.8*	748.8	743.8	744.8	735.9	726.0	720.1	713.2	702.3	683.5	654.8
130°	*692.4*	693.4	694.4	688.4	680.5	672.6	666.7	663.7	654.8	639.0	610.3
132.5°	*641.0*	641.0	639.0	635.0	628.1	622.2	622.2	613.3	606.3	591.5	566.8
135°	*590.5*	589.5	589.5	585.6	580.6	577.7	570.7	566.8	559.9	546.0	527.2
137.5°	*541.1*	543.0	541.1	538.1	533.1	529.2	524.2	523.3	513.4	503.5	482.7
140°	*493.6*	496.5	493.6	492.6	488.6	483.7	480.7	476.8	473.8	460.9	443.1
142.5°	*449.1*	451.0	449.1	448.1	445.1	441.2	439.2	436.2	429.3	421.4	406.5
145°	*410.5*	409.5	409.5	408.5	404.6	401.6	398.6	396.6	392.7	384.8	368.0
147.5°	*372.9*	369.9	371.9	369.9	367.0	365.0	364.0	360.0	356.1	348.2	336.3
150°	*334.3*	336.3	335.3	334.3	331.4	331.4	328.4	325.4	322.5	313.6	305.6
152.5°	*302.7*	302.7	303.7	301.7	300.7	297.7	295.8	294.8	290.8	284.9	276.0
155°	*276.0*	275.0	275.0	275.0	273.0	270.0	269.0	267.1	265.1	258.2	250.3
157.5°	*250.3*	250.3	250.3	249.3	249.3	246.3	245.3	242.3	239.4	235.4	228.5
160°	*228.5*	228.5	227.5	227.5	226.5	225.5	223.5	220.6	218.6	215.6	209.7
162.5°	*210.7*	209.7	209.7	208.7	207.7	205.7	204.8	203.8	200.8	197.8	192.9
165°	*193.9*	193.9	193.9	192.9	191.9	190.9	189.9	187.9	186.0	184.0	181.0
167.5°	*181.0*	181.0	181.0	180.0	180.0	179.0	178.0	176.1	174.1	172.1	170.1
170°	*171.1*	171.1	171.1	170.1	169.1	168.2	167.2	166.2	165.2	163.2	162.2
172.5°	*163.2*	163.2	163.2	163.2	161.2	160.2	159.3	159.3	158.3	157.3	156.3
175°	*156.3*	156.3	156.3	156.3	155.3	154.3	153.3	153.3	152.3	151.3	150.3
177.5°	*152.3*	152.3	152.3	151.3	151.3	150.3	149.4	149.4	148.4	148.4	147.4
180°	*147.4*	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
2.5°	85.1	81.1	74.2	68.3	63.3	58.4	55.4	52.4	52.4	53.4	51.4
5°	102.9	95.9	83.1	69.2	57.4	47.5	39.6	32.6	26.7	23.7	23.7
7.5°	136.5	128.6	110.8	93.0	76.2	60.3	47.5	36.6	27.7	22.8	21.8
10°	175.1	166.2	141.4	119.7	98.9	79.1	62.3	47.5	37.6	32.6	31.7
12.5°	219.6	207.7	178.0	150.3	123.6	98.9	78.1	61.3	51.4	46.5	45.5
15°	271.0	252.2	218.6	184.0	149.4	118.7	94.0	75.2	64.3	57.4	57.4
17.5°	317.5	297.7	257.2	212.7	173.1	137.5	107.8	85.1	70.2	63.3	62.3
20°	370.9	344.2	295.8	244.3	195.8	152.3	116.7	91.0	73.2	64.3	64.3
22.5°	425.3	397.6	338.3	276.0	217.6	166.2	125.6	95.0	75.2	65.3	64.3
25°	489.6	452.0	380.8	310.6	242.3	181.0	133.5	98.9	77.2	67.3	65.3
27.5°	551.9	513.4	430.3	345.2	265.1	195.8	140.5	102.9	79.1	68.3	67.3
30°	617.2	569.7	475.8	380.8	288.8	208.7	147.4	105.8	80.1	69.2	67.3
32.5°	682.5	630.1	526.2	415.4	311.6	220.6	153.3	107.8	82.1	70.2	68.3
35°	748.8	692.4	574.7	450.1	332.4	231.5	157.3	109.8	83.1	70.2	69.2
37.5°	806.1	746.8	620.2	481.7	350.2	240.4	161.2	111.8	83.1	71.2	70.2
40°	863.5	799.2	659.8	508.4	366.0	247.3	164.2	112.8	84.1	72.2	71.2
42.5°	915.0	843.7	694.4	532.2	378.8	252.2	165.2	112.8	85.1	73.2	72.2
45°	961.4	889.2	727.0	554.9	389.7	255.2	166.2	113.8	86.1	74.2	73.2
47.5°	1004.0	926.8	756.7	573.7	398.6	258.2	166.2	113.8	87.0	76.2	74.2
50°	1039.6	958.5	781.4	589.5	404.6	259.2	165.2	113.8	88.0	77.2	76.2
52.5°	1067.3	985.2	802.2	600.4	408.5	258.2	164.2	113.8	89.0	78.1	77.2
55°	1091.0	1006.9	817.0	609.3	409.5	256.2	163.2	113.8	90.0	80.1	79.1
57.5°	1108.8	1022.8	829.9	616.2	410.5	254.2	161.2	113.8	91.0	81.1	80.1
60°	1122.7	1036.6	839.8	620.2	409.5	251.2	160.2	113.8	92.0	83.1	82.1
62.5°	1132.6	1044.5	845.7	621.2	406.5	248.3	158.3	113.8	93.0	85.1	84.1
65°	1138.5	1050.5	850.7	622.2	403.6	245.3	157.3	114.7	95.0	88.0	87.0
67°	*1140.5*	*1053.4*	*851.6*	*622.2*	*401.6*	*243.3*	*157.3*	*115.7*	*96.9*	*89.0*	*88.0*
67.5°	1141.5	1053.4	851.6	621.2	400.6	243.3	157.3	115.7	96.9	90.0	89.0
70°	1140.5	1053.4	851.6	619.2	397.6	241.4	156.3	117.7	99.9	93.0	92.0
72.5°	1138.5	1051.5	849.7	616.2	393.7	239.4	157.3	119.7	102.9	95.9	95.0
75°	1133.6	1047.5	845.7	612.3	390.7	237.4	158.3	121.7	105.8	99.9	98.9
77.5°	1128.6	1042.6	842.7	608.3	387.7	237.4	159.3	124.6	109.8	103.9	102.9
80°	1119.7	1035.6	836.8	604.4	384.8	236.4	161.2	128.6	113.8	107.8	106.8
82.5°	1108.8	1025.7	828.9	598.4	381.8	236.4	164.2	131.6	117.7	111.8	110.8
85°	1094.0	1012.9	819.0	590.5	378.8	237.4	166.2	135.5	121.7	116.7	115.7
87.5°	1077.2	997.1	807.1	583.6	375.9	237.4	169.1	139.5	125.6	120.7	120.7
90°	1057.4	980.2	793.3	575.7	372.9	239.4	173.1	143.4	130.6	125.6	125.6
92.5°	1039.6	962.4	782.4	567.8	370.9	241.4	177.1	148.4	135.5	130.6	130.6
95°	1015.8	943.6	766.6	560.8	369.9	243.3	181.0	153.3	141.4	136.5	135.5
97.5°	993.1	922.9	752.7	552.9	368.9	247.3	186.0	159.3	146.4	141.4	141.4
100°	968.4	902.1	736.9	546.0	368.9	252.2	192.9	165.2	153.3	148.4	147.4
102.5°	944.6	879.3	721.1	539.1	370.9	257.2	199.8	172.1	160.2	155.3	154.3
105°	917.9	855.6	707.2	533.1	372.9	264.1	207.7	181.0	168.2	163.2	162.2
107.5°	891.2	833.8	691.4	528.2	376.9	273.0	217.6	189.9	177.1	171.1	170.1

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

Scaled Data Report

REPORT NUMBER: P1045860
CATALOG NUMBER: FFX-CLB-80-750-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	862.5	810.1	677.6	524.2	382.8	282.9	228.5	201.8	186.9	181.0	180.0
112.5°	835.8	786.4	662.7	521.3	388.7	294.8	241.4	212.7	198.8	190.9	189.9
115°	806.1	761.6	648.9	518.3	395.7	306.6	255.2	224.5	209.7	201.8	201.8
117.5°	777.5	735.9	633.0	515.3	402.6	319.5	268.1	237.4	220.6	212.7	211.7
120°	743.8	708.2	616.2	509.4	406.5	329.4	278.9	248.3	229.5	221.6	220.6
122.5°	710.2	677.6	594.5	500.5	407.5	335.3	286.9	257.2	237.4	228.5	227.5
125°	671.6	643.9	571.7	486.7	404.6	338.3	291.8	260.1	240.4	230.5	229.5
127.5°	634.0	607.3	545.0	469.8	396.6	335.3	290.8	260.1	240.4	229.5	228.5
130°	593.5	569.7	513.4	449.1	383.8	328.4	286.9	256.2	236.4	225.5	224.5
132.5°	551.9	532.2	482.7	426.3	368.0	317.5	277.9	249.3	229.5	219.6	218.6
135°	511.4	493.6	451.0	400.6	351.1	304.7	268.1	240.4	220.6	211.7	211.7
137.5°	472.8	456.0	418.4	375.9	331.4	289.8	256.2	229.5	212.7	203.8	201.8
140°	433.2	419.4	386.8	349.2	310.6	274.0	243.3	218.6	202.8	194.9	193.9
142.5°	396.6	384.8	357.1	326.4	290.8	259.2	230.5	209.7	194.9	186.9	186.0
145°	362.0	351.1	327.4	299.7	271.0	243.3	217.6	198.8	186.0	180.0	179.0
147.5°	327.4	320.5	300.7	277.9	251.2	226.5	205.7	189.9	178.0	173.1	172.1
150°	298.7	289.8	275.0	254.2	233.4	212.7	194.9	181.0	172.1	167.2	167.2
152.5°	270.0	265.1	250.3	234.4	216.6	199.8	184.0	173.1	166.2	162.2	162.2
155°	248.3	241.4	228.5	215.6	200.8	186.9	176.1	167.2	161.2	158.3	157.3
157.5°	225.5	221.6	211.7	199.8	188.9	178.0	169.1	162.2	157.3	155.3	154.3
160°	206.7	203.8	195.8	186.9	178.0	170.1	163.2	158.3	154.3	152.3	152.3
162.5°	190.9	188.9	182.0	176.1	169.1	163.2	158.3	154.3	152.3	151.3	151.3
165°	179.0	177.1	172.1	167.2	163.2	158.3	155.3	152.3	150.3	150.3	150.3
167.5°	169.1	167.2	164.2	161.2	158.3	154.3	152.3	150.3	150.3	149.4	149.4
170°	161.2	160.2	157.3	155.3	153.3	151.3	150.3	149.4	148.4	148.4	148.4
172.5°	155.3	154.3	152.3	151.3	149.4	148.4	148.4	148.4	148.4	148.4	148.4
175°	150.3	149.4	149.4	148.4	147.4	147.4	146.4	147.4	147.4	147.4	147.4
177.5°	147.4	147.4	146.4	146.4	146.4	146.4	146.4	147.4	147.4	148.4	148.4
180°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4	147.4

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: SP1-2501-332-5

Test Date: 03/25/2025

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

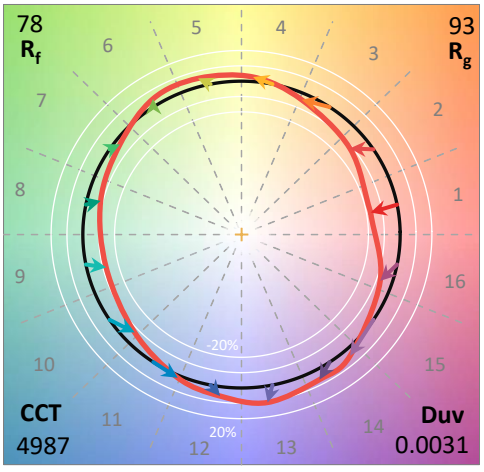
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-5
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-100-750-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	4987	CRI (Ra):	75.8		
CIE u':	0.2094	R1:	71.6	R9:	-30.4
CIE v':	0.4882	R2:	82.8	R10:	59.9
Duv:	0.0031	R3:	91.2	R11:	70.9
CIE x:	0.3461	R4:	73.8	R12:	51.2
CIE y:	0.3586	R5:	73.0	R13:	74.2
CIE z:	0.2954	R6:	76.1	R14:	95.3
Peak Wavelength (nm):	450	R7:	82.9	R15:	63.7
Dominant Wavelength (nm):	570	R8:	54.9		
Purity:	11.4				

Rf:	78.3
Rg:	93.4



Test Conditions

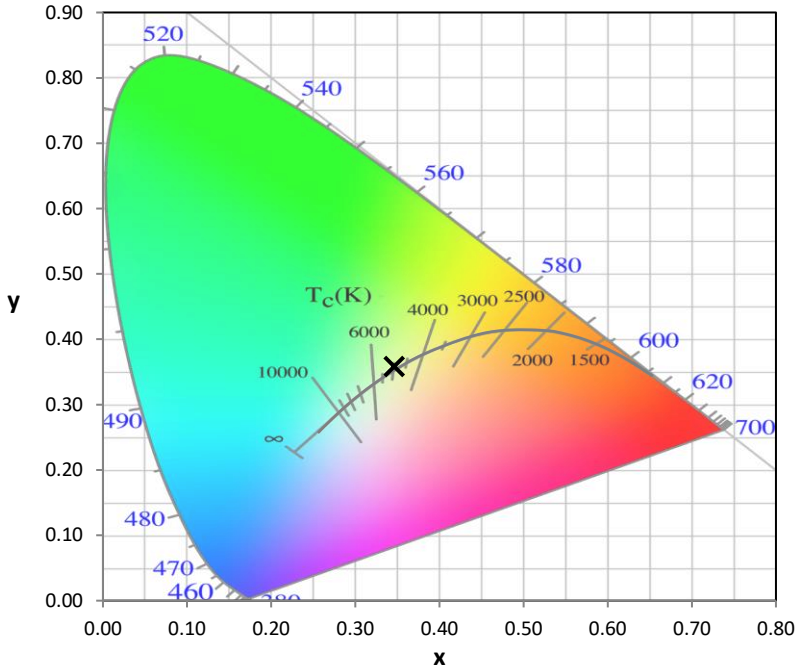
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

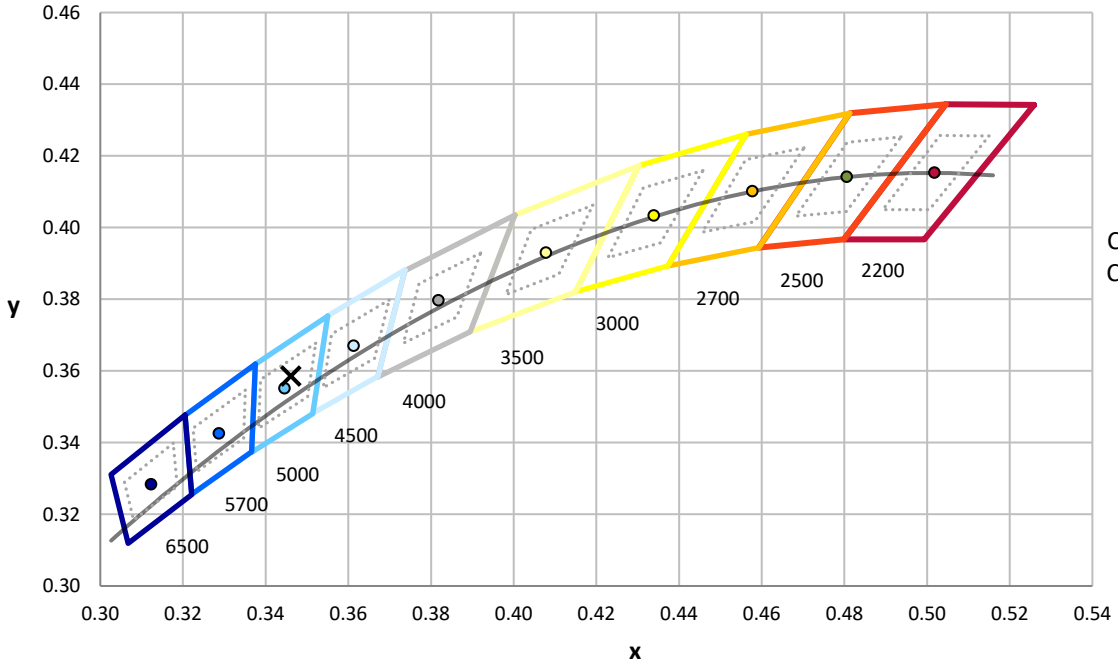
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-5

CIE 1931 Chromaticity Diagram



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

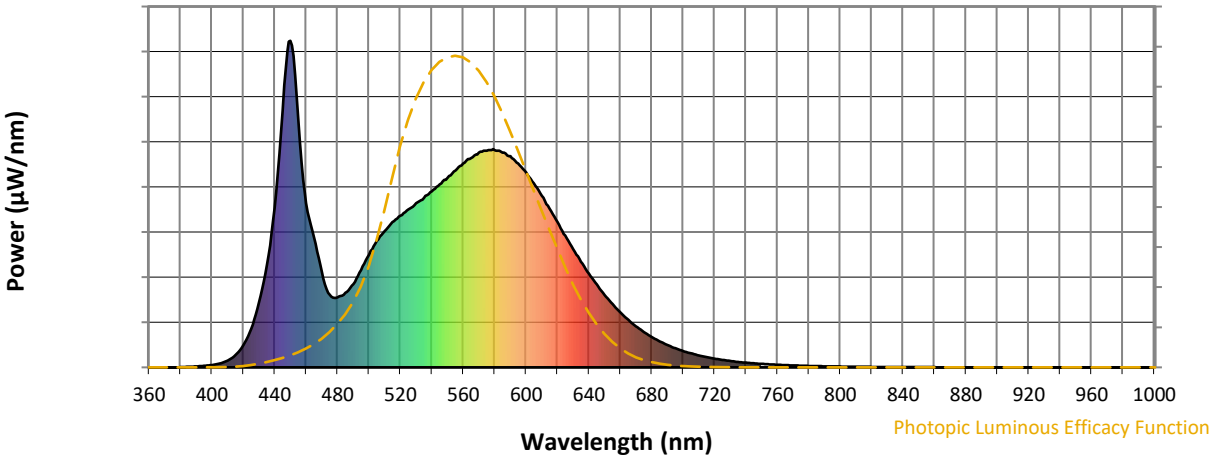


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

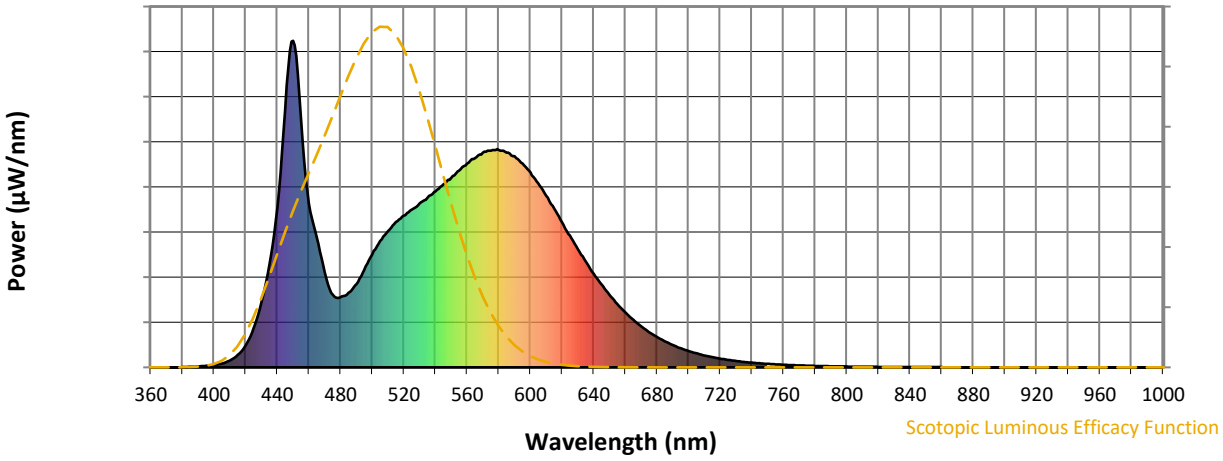


Photopic Lumens: NR

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Scotopic Flux vs. Wavelength

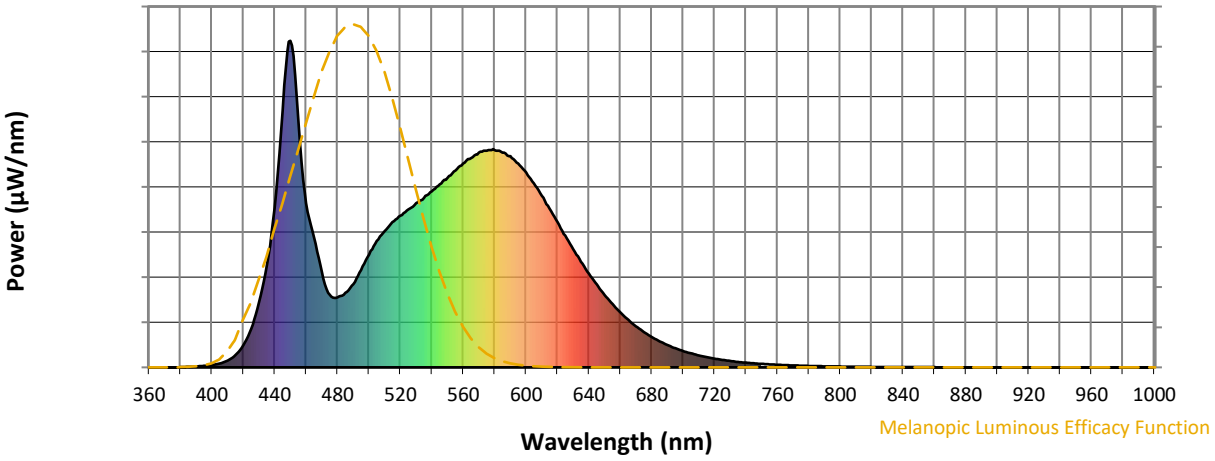


Scotopic Lumens: NR **S/P: 1.87**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.92**

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	255	NR	620	445	NR	750	11	NR	880	0	NR
365	0	NR	495	298	NR	625	403	NR	755	9	NR	885	0	NR
370	0	NR	500	345	NR	630	362	NR	760	8	NR	890	0	NR
375	0	NR	505	387	NR	635	323	NR	765	7	NR	895	0	NR
380	1	NR	510	417	NR	640	287	NR	770	6	NR	900	0	NR
385	2	NR	515	445	NR	645	254	NR	775	5	NR	905	0	NR
390	3	NR	520	464	NR	650	222	NR	780	4	NR	910	0	NR
395	5	NR	525	483	NR	655	194	NR	785	4	NR	915	0	NR
400	7	NR	530	503	NR	660	168	NR	790	3	NR	920	0	NR
405	12	NR	535	519	NR	665	146	NR	795	3	NR	925	0	NR
410	21	NR	540	539	NR	670	126	NR	800	3	NR	930	0	NR
415	38	NR	545	561	NR	675	108	NR	805	2	NR	935	0	NR
420	68	NR	550	580	NR	680	93	NR	810	2	NR	940	0	NR
425	119	NR	555	602	NR	685	80	NR	815	2	NR	945	0	NR
430	199	NR	560	624	NR	690	69	NR	820	2	NR	950	0	NR
435	315	NR	565	641	NR	695	59	NR	825	1	NR	955	0	NR
440	489	NR	570	657	NR	700	50	NR	830	1	NR	960	0	NR
445	787	NR	575	663	NR	705	43	NR	835	1	NR	965	0	NR
450	1000	NR	580	666	NR	710	36	NR	840	1	NR	970	0	NR
455	757	NR	585	657	NR	715	31	NR	845	1	NR	975	0	NR
460	503	NR	590	646	NR	720	27	NR	850	1	NR	980	0	NR
465	398	NR	595	624	NR	725	23	NR	855	1	NR	985	0	NR
470	290	NR	600	597	NR	730	20	NR	860	1	NR	990	0	NR
475	222	NR	605	564	NR	735	17	NR	865	0	NR	995	0	NR
480	215	NR	610	525	NR	740	14	NR	870	0	NR	1000	0	NR
485	228	NR	615	486	NR	745	12	NR	875	0	NR			

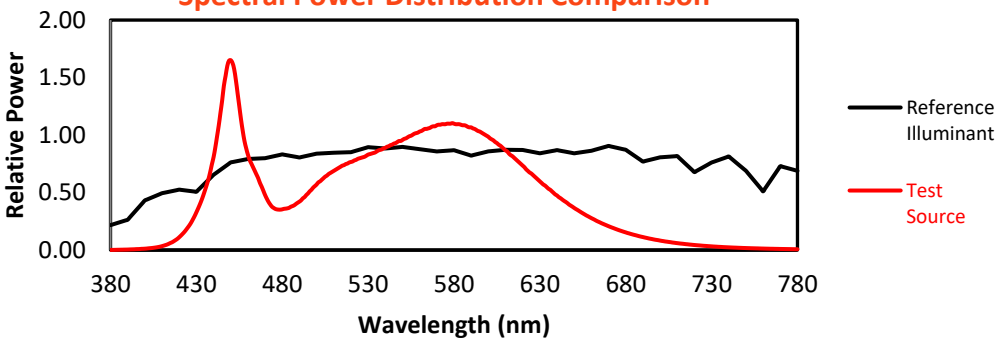
REPORT NUMBER: SP1-2501-332-5

TM-30-18

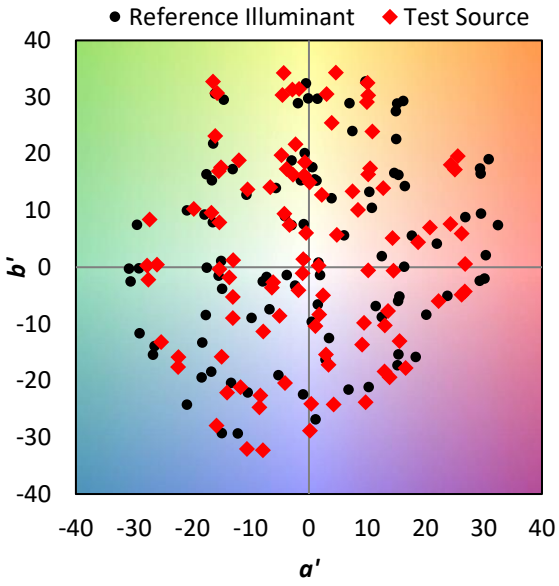
Summary

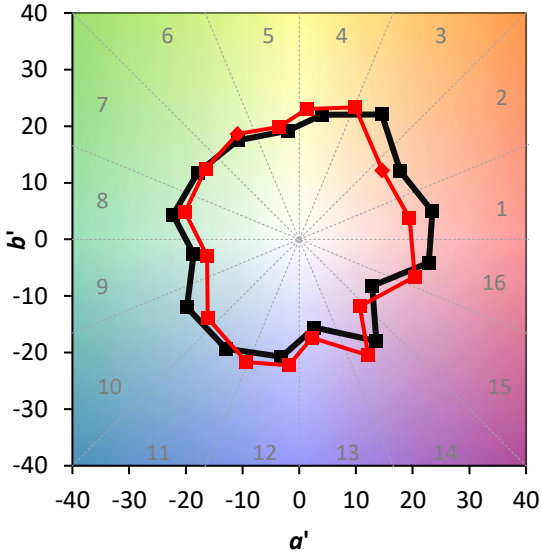
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R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

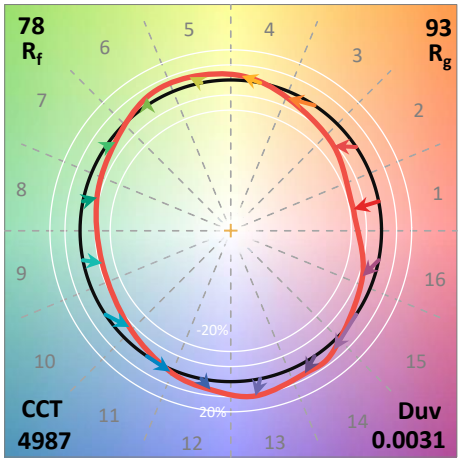
Spectral Power Distribution Comparison

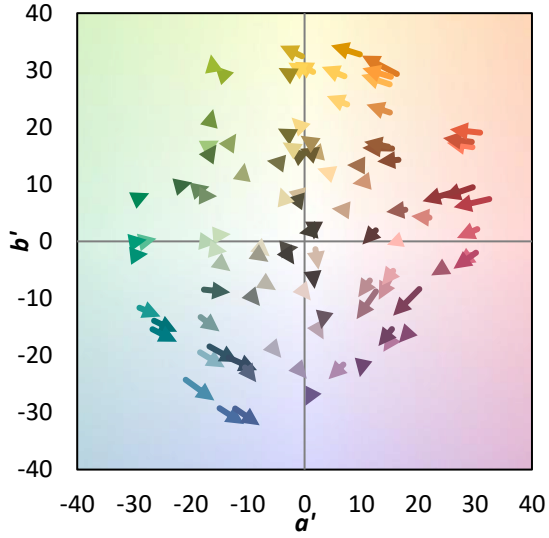


Color Vector Graphics







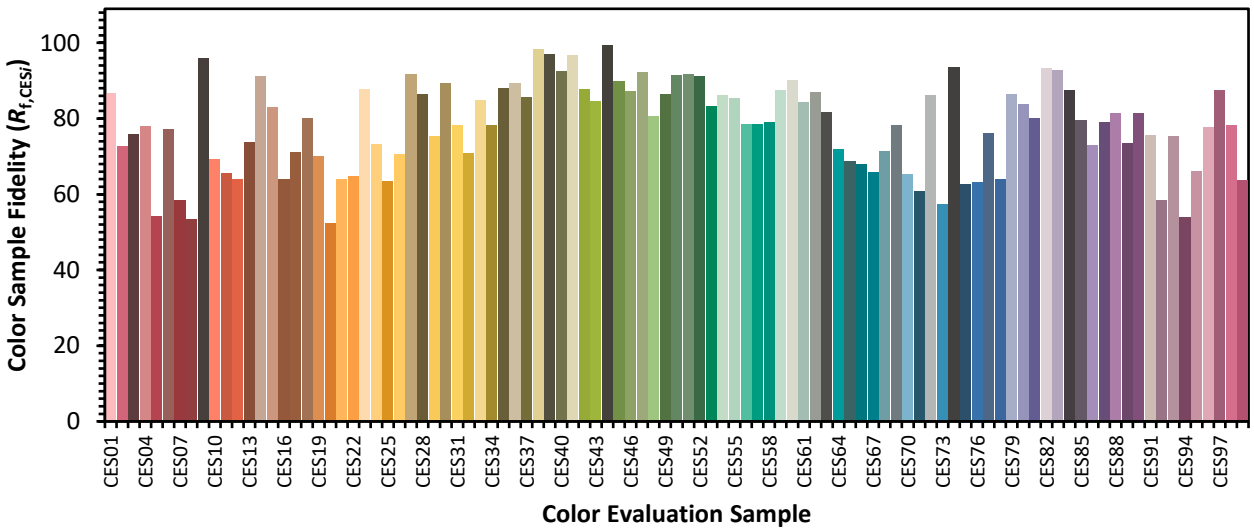


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

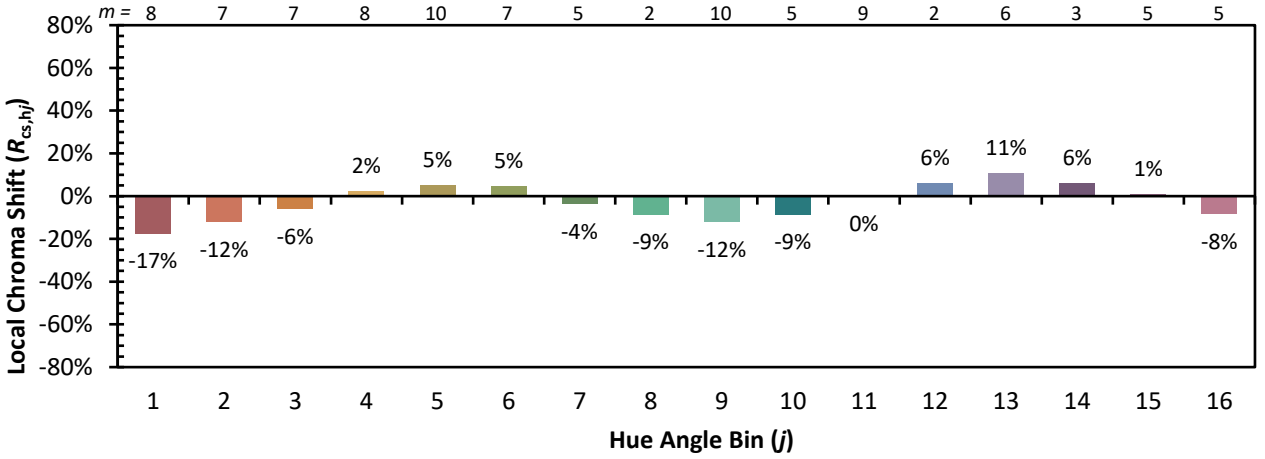
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CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 93
CES08 = 38	CES33 = 85	CES58 = 79	CES83 = 93
CES09 = 29	CES34 = 78	CES59 = 88	CES84 = 87
CES10 = 73	CES35 = 88	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 89	CES61 = 84	CES86 = 73
CES12 = 61	CES37 = 86	CES62 = 87	CES87 = 79
CES13 = 41	CES38 = 98	CES63 = 82	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 74
CES15 = 70	CES40 = 93	CES65 = 69	CES90 = 81
CES16 = 46	CES41 = 97	CES66 = 68	CES91 = 76
CES17 = 49	CES42 = 88	CES67 = 66	CES92 = 58
CES18 = 55	CES43 = 85	CES68 = 71	CES93 = 75
CES19 = 71	CES44 = 99	CES69 = 78	CES94 = 54
CES20 = 64	CES45 = 90	CES70 = 65	CES95 = 66
CES21 = 85	CES46 = 87	CES71 = 61	CES96 = 78
CES22 = 77	CES47 = 92	CES72 = 86	CES97 = 88
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CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
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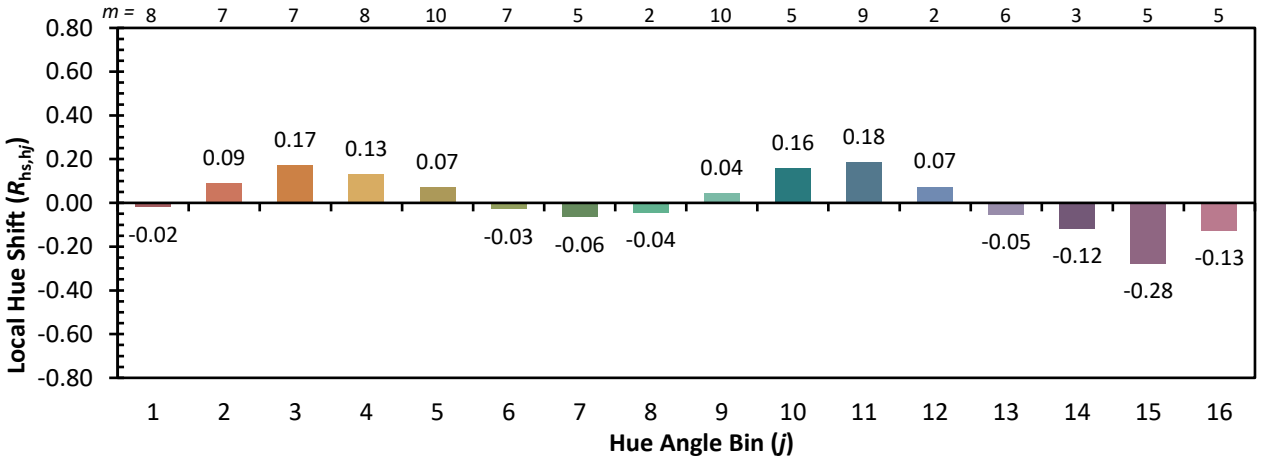


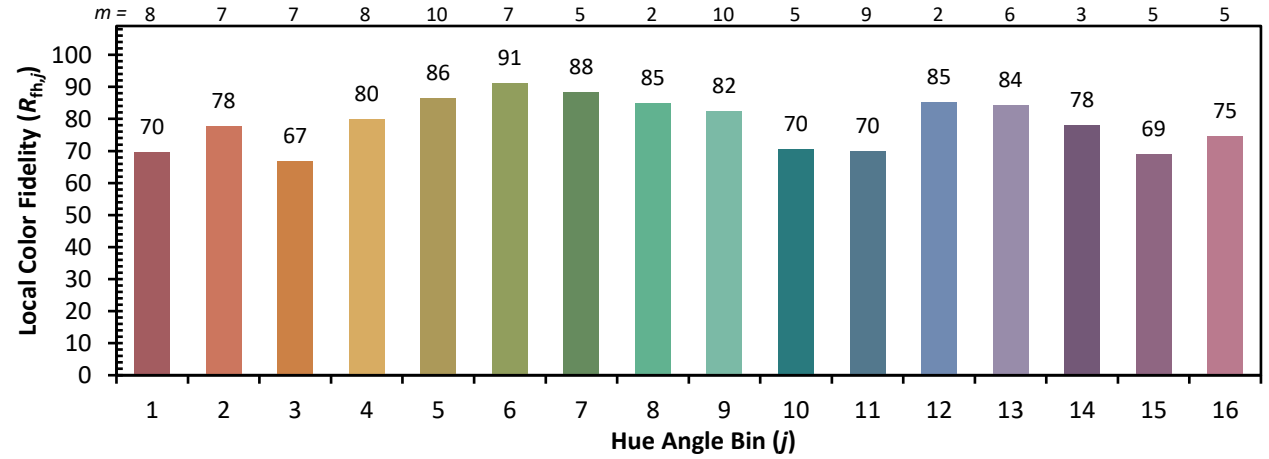
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Color Rendition by Hue-Angle Bin



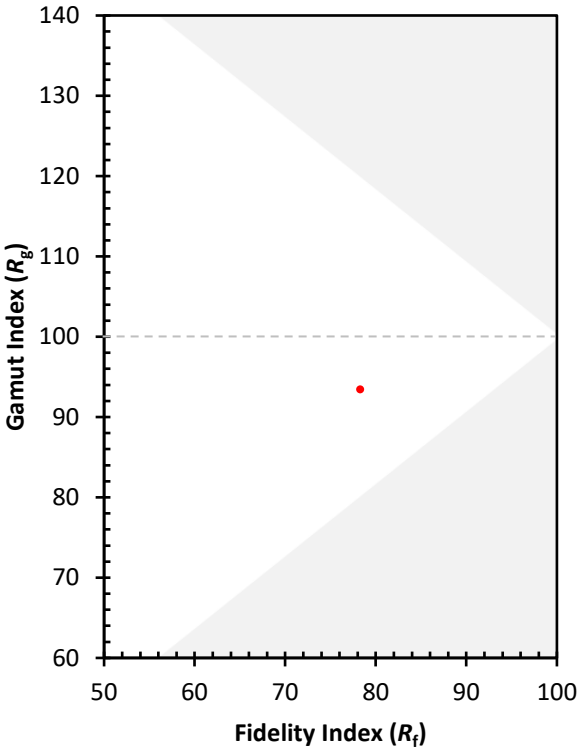


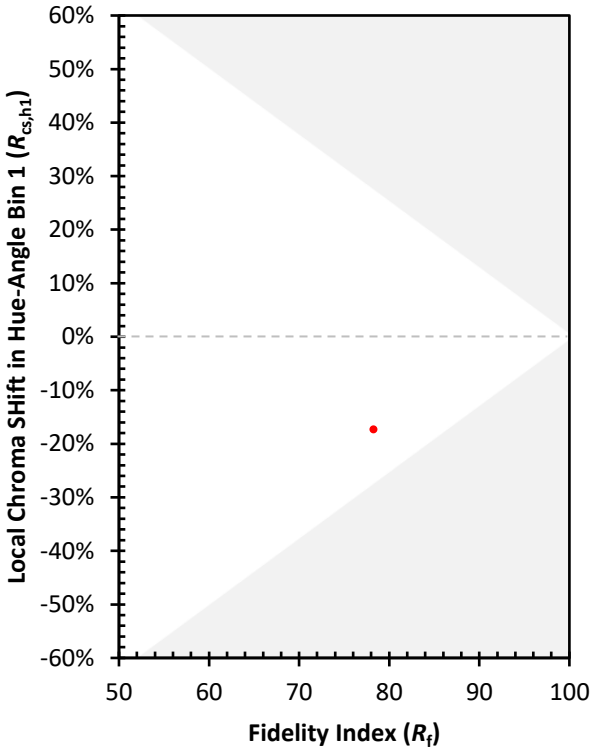


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Measure Comparisons





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