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: P1224034

Luminaire Tested: **FFX-CLB-70-730-U-VM8-T4-HSS**

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:	P1224034
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-70-730-U-VM8-T4-HSS
Description:	FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK TYPE 4 DISTRIBUTION AND HOUSE SIDE SHIELD
Light Source:	(6) 3000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9772.5 lumens
Efficiency:	N/A
Efficacy:	137.3 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):	71.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.93%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

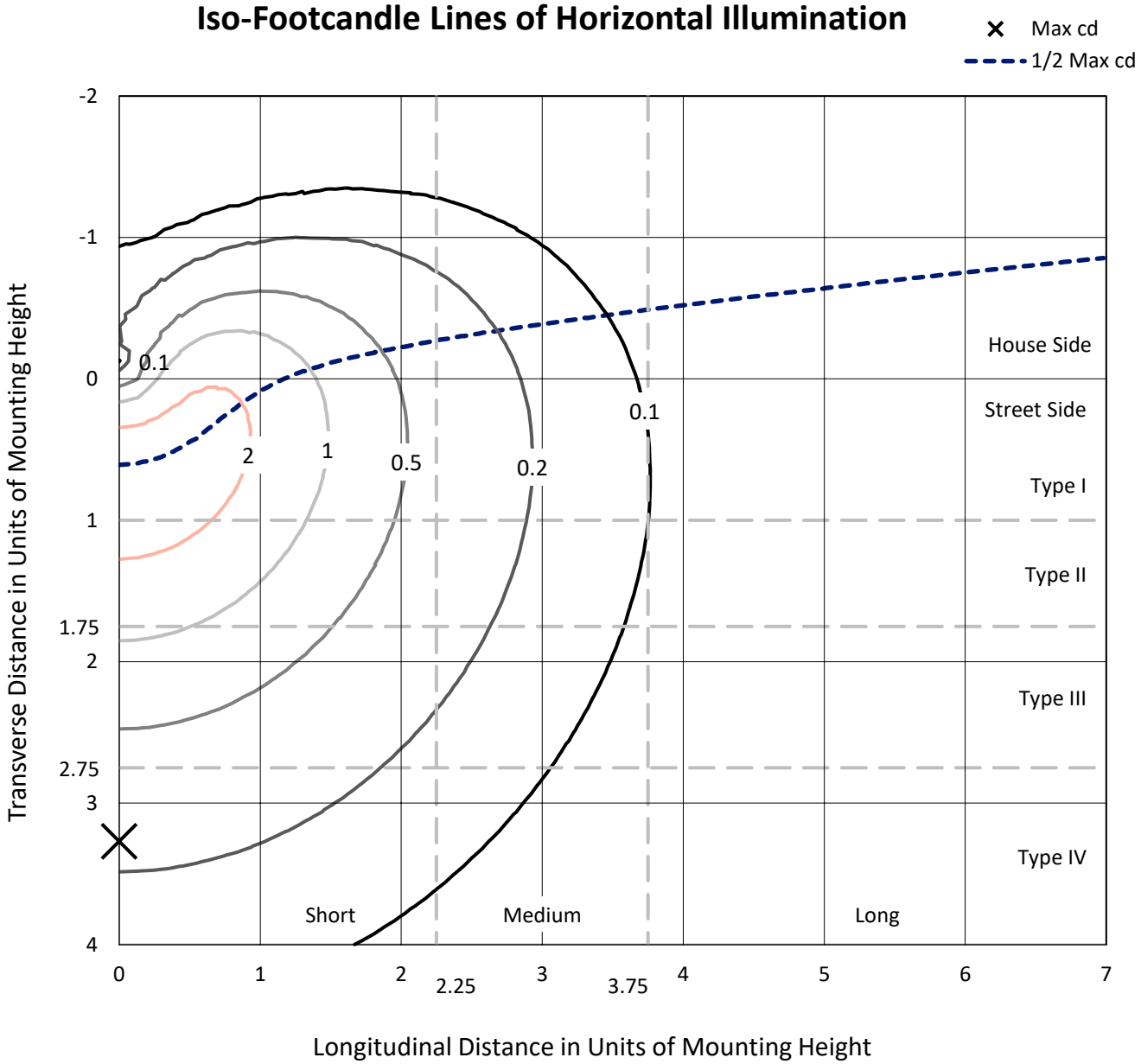


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



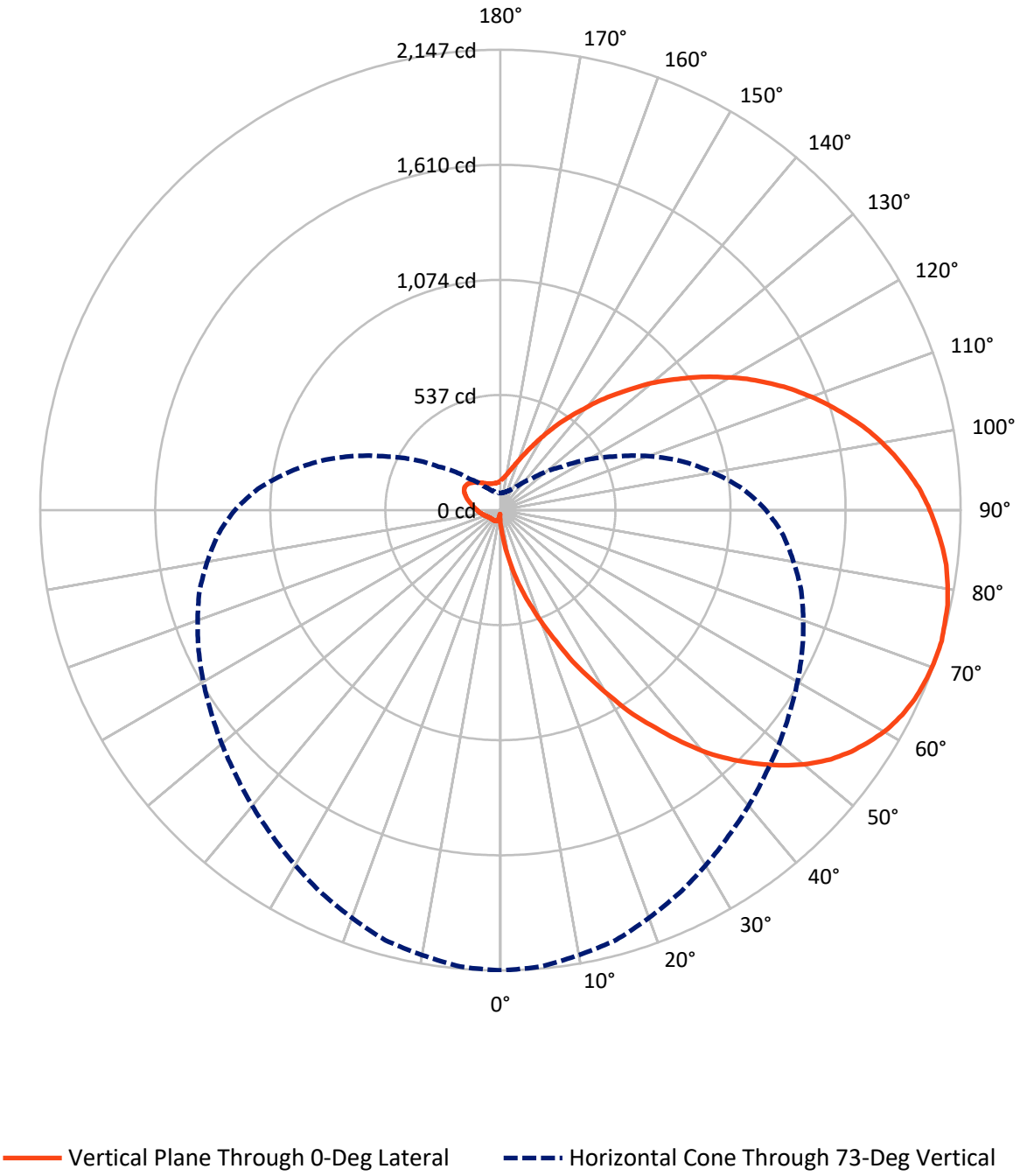
Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

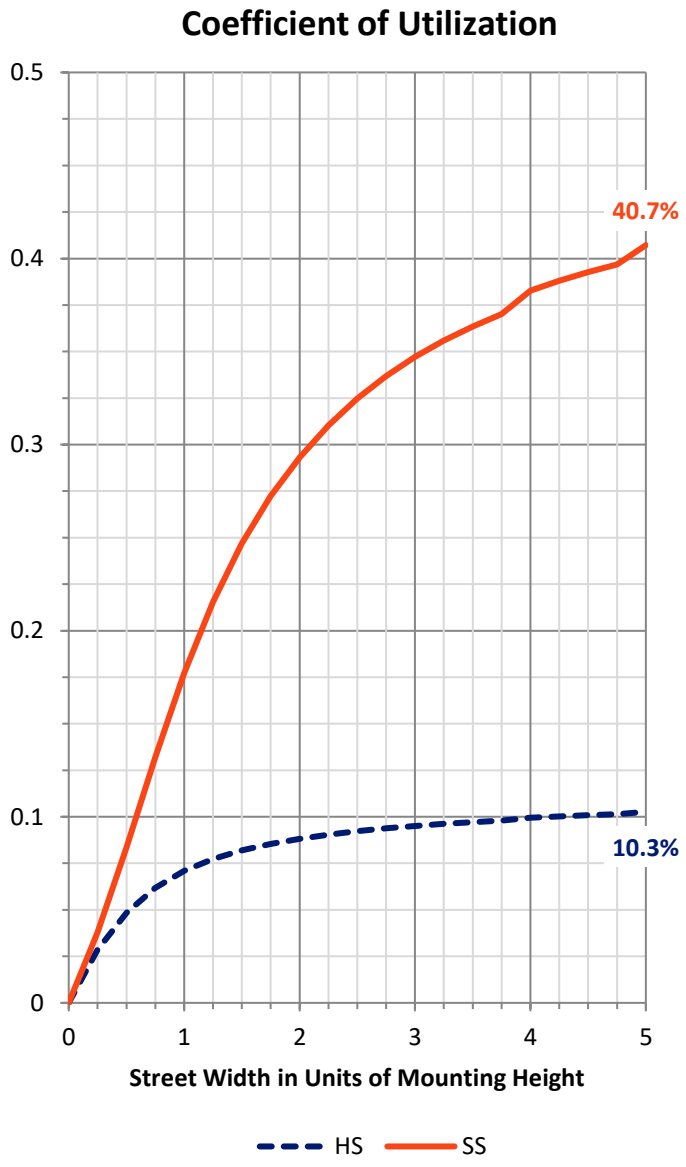
REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.4	1063.6	2146.1
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	4563.8	3062.7	7626.4
	% Fixture	46.7	31.3	78.0
Total	Lumens	5646.2	4126.3	9772.5
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.1
10°-20°	69.3	0.7
20°-30°	209.2	2.1
30°-40°	435.8	4.5
40°-50°	690.7	7.1
50°-60°	907.3	9.3
60°-70°	1057.1	10.8
70°-80°	1133.0	11.6
80°-90°	1133.9	11.6
90°-100°	1063.3	10.9
100°-110°	935.4	9.6
110°-120°	772.4	7.9
120°-130°	581.4	5.9
130°-140°	383.7	3.9
140°-150°	220.0	2.3
150°-160°	109.1	1.1
160°-170°	47.6	0.5
170°-180°	13.3	0.1
0°-90°	5646.2	57.8
0°-180°	9772.5	100.0



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

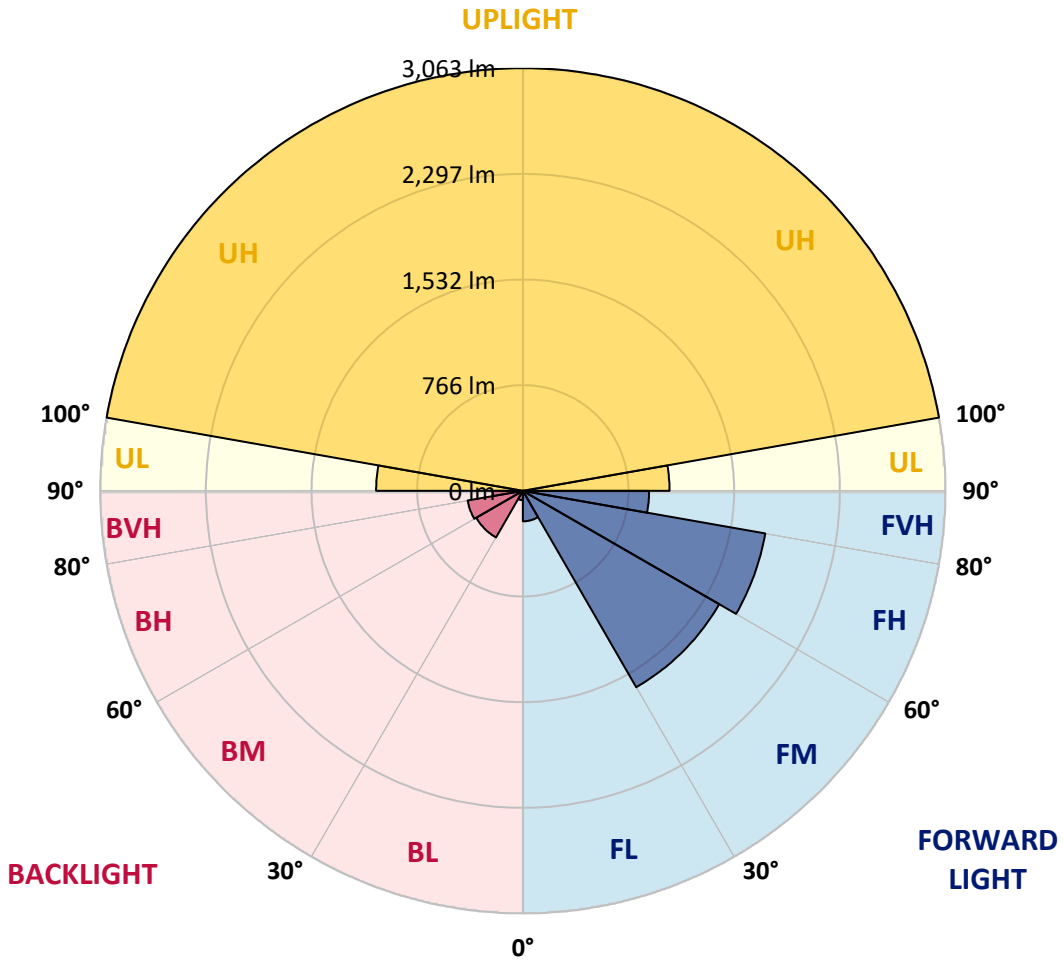
Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	220.9	2.3			
FM	(30°-60°)	1643.7	16.8			
FH	(60°-80°)	1784.1	18.3			G1/1800
FVH	(80°-90°)	915.0	9.4			G5
BL	(0°-30°)	67.5	0.7	B0/110		
BM	(30°-60°)	390.0	4.0	B1/1000		
BH	(60°-80°)	406.0	4.2	B1/500		G1/500
BVH	(80°-90°)	218.9	2.2			G2/225
UL	(90°-100°)	1063.3	10.9		U5	
UH	(100°-180°)	3063.0	31.3		U5	

BUG Rating: B1-U5-G5
Type IV Short



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

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	*66.1*	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	*88.2*	88.8	88.2	89.5	86.2	86.2	83.5	80.8	77.5	73.5	70.8
5°	*130.9*	130.2	130.2	130.9	128.9	122.9	116.2	106.9	98.9	90.2	85.5
7.5°	*188.4*	185.7	183.0	182.3	175.7	167.0	157.6	146.9	135.6	123.6	114.9
10°	*248.5*	250.5	247.8	240.4	232.4	222.4	210.4	195.7	181.0	164.3	154.3
12.5°	*325.9*	320.6	313.9	306.6	298.6	289.2	269.8	253.1	232.4	211.7	198.4
15°	*401.4*	396.7	396.7	387.4	374.7	360.7	342.6	321.9	293.2	260.5	248.5
17.5°	*478.9*	479.6	472.9	462.2	450.8	432.8	413.4	384.1	354.7	320.6	299.9
20°	*569.7*	567.1	562.4	554.4	534.3	518.3	494.3	461.5	421.5	380.0	354.7
22.5°	*663.9*	665.2	665.2	652.6	633.9	611.8	584.4	547.0	499.6	446.2	415.4
25°	*781.5*	780.8	768.1	753.4	738.7	716.0	681.3	635.9	583.8	519.6	483.6
27.5°	*888.3*	887.7	885.0	871.6	849.6	820.2	779.5	730.0	670.6	593.8	551.0
30°	*1007.2*	1009.9	1002.5	991.2	962.5	932.4	885.0	826.9	756.7	673.9	625.8
32.5°	*1136.1*	1130.8	1124.8	1110.1	1078.7	1036.6	983.2	923.1	846.2	751.4	698.6
35°	*1247.7*	1257.7	1248.3	1225.6	1186.9	1142.1	1083.4	1015.9	932.4	830.9	770.8
37.5°	*1373.2*	1371.2	1357.2	1335.2	1297.8	1241.0	1178.9	1100.7	1007.2	901.7	834.9
40°	*1490.1*	1482.1	1474.1	1441.4	1393.9	1337.2	1260.4	1180.9	1084.7	965.8	898.3
42.5°	*1593.6*	1593.0	1571.6	1538.9	1479.4	1416.6	1337.2	1248.3	1148.1	1025.2	949.1
45°	*1689.2*	1687.2	1666.4	1617.7	1561.6	1486.1	1403.3	1311.1	1205.6	1076.0	1003.2
47.5°	*1779.3*	1774.0	1745.3	1695.8	1625.0	1545.6	1460.1	1363.2	1254.3	1121.4	1045.3
50°	*1861.5*	1856.8	1823.4	1760.6	1685.1	1600.3	1506.8	1406.6	1300.4	1166.8	1084.7
52.5°	*1931.6*	1923.6	1884.9	1817.4	1731.2	1641.7	1544.2	1444.0	1336.5	1198.9	1119.4
55°	*1987.7*	1979.0	1937.6	1862.1	1772.0	1675.1	1576.3	1476.8	1364.5	1227.6	1146.1
57.5°	*2034.5*	2027.8	1982.4	1899.5	1803.4	1703.9	1603.7	1502.1	1390.6	1254.3	1169.5
60°	*2075.2*	2067.2	2015.8	1930.3	1828.8	1725.9	1623.7	1522.2	1412.6	1275.0	1190.9
62.5°	*2103.9*	2097.9	2043.8	1952.3	1846.8	1742.6	1637.1	1538.9	1429.3	1293.8	1206.9
65°	*2124.6*	2117.3	2062.5	1965.7	1858.1	1750.6	1647.1	1546.2	1440.0	1305.1	1218.9
67.5°	*2136.7*	2131.3	2073.9	1975.0	1862.8	1754.6	1651.8	1553.6	1448.7	1314.5	1228.3
70°	*2144.7*	2136.7	2078.6	1977.0	1861.5	1753.9	1651.8	1554.2	1453.4	1321.1	1233.6
72.5°	*2146.7*	2138.0	2077.9	1973.7	1857.5	1747.3	1648.4	1554.9	1454.7	1324.5	1239.0
73°	*2147.3*	*2138.0*	*2077.2*	*1972.4*	*1855.5*	*1746.6*	*1647.7*	*1553.6*	*1453.4*	*1323.8*	*1239.0*
75°	*2140.0*	2134.0	2071.9	1964.3	1848.8	1739.9	1643.1	1550.2	1453.4	1324.5	1238.3
77.5°	*2132.7*	2123.3	2058.5	1953.0	1833.4	1727.9	1633.1	1543.6	1448.7	1323.1	1237.6
80°	*2115.3*	2105.9	2041.1	1931.6	1814.1	1710.5	1619.0	1532.9	1440.0	1315.8	1232.3
82.5°	*2095.2*	2084.6	2017.1	1906.9	1790.7	1688.5	1601.0	1518.8	1428.7	1307.1	1224.3
85°	*2065.9*	2057.8	1989.1	1876.8	1764.0	1665.8	1580.3	1502.1	1414.0	1293.8	1212.3
87.5°	*2031.8*	2025.1	1953.7	1842.8	1729.9	1636.4	1556.2	1480.1	1397.3	1279.1	1198.9
90°	*1996.4*	1988.4	1916.9	1804.0	1696.5	1604.3	1528.2	1456.7	1376.6	1261.0	1181.5
92.5°	*1955.7*	1946.3	1874.2	1764.6	1659.8	1571.6	1500.8	1430.7	1353.2	1240.3	1163.5
95°	*1906.2*	1897.5	1826.1	1716.5	1613.7	1533.5	1464.7	1399.9	1325.8	1215.6	1141.5
97.5°	*1853.5*	1845.4	1773.3	1668.5	1568.9	1490.1	1426.0	1367.2	1296.4	1191.6	1116.8
100°	*1796.7*	1786.0	1714.5	1613.7	1515.5	1444.0	1386.6	1333.8	1264.4	1161.5	1090.0
102.5°	*1736.6*	1726.6	1658.4	1559.6	1467.4	1397.9	1345.8	1294.4	1231.0	1134.1	1064.0
105°	*1668.5*	1663.1	1594.3	1498.8	1412.6	1348.5	1299.8	1255.0	1194.9	1100.7	1036.6
107.5°	*1601.0*	1590.3	1526.2	1434.7	1353.9	1295.8	1253.7	1212.3	1157.5	1067.3	1006.5

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

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1529.5*	1518.8	1461.4	1373.9	1299.1	1243.7	1204.9	1168.2	1118.8	1034.6	977.2
112.5°	*1457.4*	1445.4	1388.6	1308.4	1235.6	1190.2	1154.8	1124.1	1079.4	1001.9	945.1
115°	*1379.2*	1374.6	1319.1	1242.3	1178.2	1135.5	1104.7	1076.7	1034.6	966.5	914.4
117.5°	*1302.4*	1293.8	1245.7	1174.9	1115.4	1075.3	1052.0	1027.3	989.2	925.1	879.6
120°	*1219.6*	1217.6	1171.5	1105.4	1050.0	1018.6	995.9	975.2	941.8	883.7	840.9
122.5°	*1141.5*	1137.5	1093.4	1033.9	987.8	958.5	940.4	922.4	893.7	839.6	799.5
125°	*1058.6*	1054.0	1019.2	970.5	926.4	898.3	881.0	867.0	840.9	792.1	754.7
127.5°	*981.8*	977.2	945.8	899.0	864.3	838.9	822.9	810.2	784.1	742.1	709.3
130°	*905.7*	897.7	870.3	832.9	798.2	780.8	764.8	755.4	728.7	689.3	660.6
132.5°	*824.2*	820.2	800.8	766.1	738.0	720.0	706.0	694.0	673.3	637.2	611.1
135°	*752.1*	748.1	730.0	700.6	681.3	664.6	651.9	639.2	617.8	583.1	561.0
137.5°	*683.3*	679.9	663.9	643.9	619.2	609.1	600.5	585.1	566.4	535.0	515.0
140°	*611.1*	612.5	599.8	581.8	566.4	554.4	545.7	533.0	514.3	487.6	467.5
142.5°	*551.7*	553.7	538.3	525.6	511.6	502.3	493.6	482.9	464.9	440.8	425.5
145°	*495.6*	490.9	484.9	472.9	459.5	453.5	444.8	435.5	421.5	397.4	384.7
147.5°	*438.8*	437.5	431.5	423.5	412.8	403.4	396.7	391.4	377.4	357.3	346.0
150°	*387.4*	386.1	382.7	376.7	367.4	361.3	356.0	348.7	335.3	319.9	309.9
152.5°	*342.0*	342.0	340.0	332.0	327.9	321.3	314.6	310.6	297.2	284.5	275.8
155°	*302.6*	302.6	299.9	295.9	288.5	284.5	280.5	274.5	265.2	255.1	247.1
157.5°	*268.5*	269.2	265.8	262.5	257.1	253.8	249.8	243.8	237.8	228.4	222.4
160°	*238.4*	239.1	237.8	235.1	229.8	226.4	223.1	218.4	213.1	205.7	200.4
162.5°	*214.4*	213.7	212.4	209.7	206.4	204.4	200.4	197.0	192.4	187.0	182.3
165°	*195.7*	193.7	193.0	191.0	187.7	185.7	182.3	179.7	176.3	171.0	169.0
167.5°	*179.0*	179.0	177.7	176.3	173.7	171.0	168.3	166.3	163.6	160.3	157.6
170°	*165.6*	165.6	164.3	163.0	160.3	159.0	157.0	155.0	153.0	150.3	148.9
172.5°	*155.0*	155.0	154.3	152.3	150.9	148.9	148.3	146.3	144.3	142.9	141.6
175°	*146.9*	146.9	145.6	144.3	142.9	141.6	140.3	139.6	138.9	137.6	136.9
177.5°	*140.9*	140.3	139.6	138.3	136.9	136.3	135.6	134.9	134.9	134.3	133.6
180°	*132.9*	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9

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

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	68.1	62.1	55.4	49.4	46.1	41.4	38.7	37.4	38.7	36.7
5°	80.8	70.1	59.4	51.4	42.7	36.1	30.1	24.0	20.0	19.4
7.5°	107.5	95.5	80.8	67.5	55.4	44.8	35.4	28.1	22.7	22.0
10°	142.3	124.2	105.5	86.8	69.5	55.4	44.1	36.1	33.4	32.7
12.5°	185.7	159.6	133.6	108.9	87.5	68.8	56.1	47.4	43.4	42.7
15°	231.1	198.4	165.0	132.9	104.2	81.5	65.5	56.1	51.4	50.8
17.5°	279.9	237.1	191.7	154.3	120.2	92.8	72.8	60.1	54.8	53.4
20°	329.3	275.8	223.8	175.0	133.6	100.2	76.8	62.1	55.4	54.1
22.5°	384.7	320.6	255.8	195.0	145.6	107.5	80.1	63.5	56.1	54.8
25°	447.5	366.0	289.2	218.4	159.0	114.2	83.5	65.5	56.8	55.4
27.5°	511.6	416.8	323.3	239.1	170.3	118.9	86.2	66.1	57.4	56.1
30°	576.4	467.5	358.0	259.2	180.3	124.2	87.5	66.8	57.4	56.8
32.5°	643.9	515.0	391.4	277.9	189.0	127.6	88.8	67.5	58.1	56.8
35°	704.7	565.1	422.8	295.9	197.0	130.2	89.5	67.5	58.1	56.8
37.5°	762.8	607.8	451.5	310.6	203.0	132.2	90.2	67.5	58.1	56.8
40°	823.5	653.2	477.6	323.9	207.7	133.6	90.2	67.5	58.1	57.4
42.5°	873.0	691.3	499.6	333.3	211.1	133.6	90.2	67.5	58.8	57.4
45°	917.7	722.7	521.0	342.0	213.1	133.6	89.5	68.1	58.8	58.1
47.5°	956.5	754.1	537.0	348.0	213.7	133.6	89.5	68.1	59.4	58.8
50°	992.5	779.5	551.0	352.7	214.4	132.9	89.5	68.8	60.1	58.8
52.5°	1023.2	800.2	562.4	355.3	213.1	131.6	89.5	69.5	61.4	60.1
55°	1049.3	819.5	570.4	356.7	211.7	130.9	89.5	70.1	62.1	61.4
57.5°	1070.7	834.9	577.7	357.3	210.4	130.2	90.2	71.5	64.1	63.5
60°	1090.0	847.6	583.1	357.3	209.1	129.6	90.8	72.8	65.5	64.8
62.5°	1105.4	857.6	587.1	356.7	208.4	129.6	92.2	74.8	67.5	66.8
65°	1116.1	864.9	589.1	355.3	207.1	130.2	93.5	76.8	70.1	69.5
67.5°	1126.1	871.6	590.4	354.7	206.4	130.9	95.5	79.5	72.8	72.1
70°	1132.1	875.6	591.1	354.0	205.7	132.2	97.5	82.2	76.1	75.5
72.5°	1134.8	878.3	591.8	352.7	206.4	133.6	100.2	84.8	79.5	78.8
73°	*1135.5*	*878.3*	*591.1*	*352.7*	*206.4*	*134.3*	*100.9*	*86.2*	*80.1*	*79.5*
75°	1136.8	878.3	590.4	352.0	207.1	135.6	102.9	88.8	82.8	82.8
77.5°	1134.8	877.0	589.1	351.3	207.7	138.3	106.2	92.2	86.8	86.2
80°	1130.8	873.6	587.1	351.3	209.1	140.9	110.2	96.2	90.8	90.2
82.5°	1122.1	867.6	584.4	350.7	211.1	144.3	114.2	100.2	95.5	94.8
85°	1113.4	860.3	580.4	350.7	213.7	148.3	118.2	104.9	100.2	99.5
87.5°	1100.1	851.6	576.4	350.0	216.4	151.6	122.2	109.5	104.2	104.2
90°	1084.7	842.2	572.4	350.7	219.1	156.3	127.6	114.9	109.5	108.9
92.5°	1069.3	831.6	567.7	352.0	223.8	161.0	132.9	120.2	114.9	113.5
95°	1048.6	816.9	562.4	352.7	227.8	166.3	138.3	125.6	120.2	120.2
97.5°	1027.3	803.5	556.4	354.7	233.1	173.0	145.6	132.2	126.9	126.9
100°	1004.5	789.5	552.4	356.7	238.4	180.3	152.3	138.9	133.6	133.6
102.5°	980.5	774.1	548.4	360.7	246.5	187.7	160.3	146.9	140.9	140.9
105°	955.8	759.4	544.4	365.3	254.5	197.0	169.0	155.6	149.6	149.6
107.5°	931.7	745.4	541.0	371.4	263.2	206.4	177.7	164.3	158.3	157.0

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

Scaled Data Report

REPORT NUMBER: P1224034
CATALOG NUMBER: FFX-CLB-70-730-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	906.4	730.7	538.3	377.4	273.2	217.1	188.4	173.0	166.3	166.3
112.5°	879.0	715.3	536.3	383.4	283.9	227.8	197.7	182.3	175.7	174.3
115°	850.3	700.0	532.3	390.1	293.2	238.4	207.7	190.4	183.0	182.3
117.5°	822.2	681.9	527.7	394.7	301.9	247.1	215.7	198.4	190.4	189.7
120°	789.5	661.9	519.6	396.1	308.6	253.8	222.4	203.7	195.7	194.4
122.5°	753.4	635.9	508.3	394.7	311.9	258.5	226.4	207.7	198.4	197.7
125°	712.7	607.1	493.6	390.1	312.6	260.5	227.8	208.4	199.7	198.4
127.5°	669.9	578.4	474.2	380.7	308.6	259.2	226.4	207.1	197.7	197.0
130°	625.8	544.4	451.5	368.7	301.9	254.5	223.1	203.7	194.4	193.7
132.5°	581.8	508.3	426.8	352.7	292.5	247.1	217.1	198.4	189.7	188.4
135°	534.3	472.9	401.4	336.0	279.9	239.1	209.7	191.7	183.0	182.3
137.5°	490.9	436.1	375.4	317.3	267.8	228.4	201.7	185.0	177.7	176.3
140°	448.2	400.7	347.3	297.2	252.5	217.7	192.4	177.7	170.3	169.7
142.5°	408.8	368.0	322.6	277.9	238.4	207.1	184.3	170.3	164.3	163.0
145°	368.0	334.0	296.6	257.8	223.1	195.7	175.7	163.0	157.6	156.3
147.5°	332.6	302.6	270.5	237.8	209.1	184.3	167.0	156.3	151.6	150.9
150°	299.2	273.8	245.8	219.1	193.7	173.7	159.0	149.6	145.6	144.9
152.5°	269.2	247.1	224.4	201.7	180.3	164.3	151.6	143.6	140.3	140.3
155°	241.1	223.1	205.0	186.3	169.7	156.3	146.3	139.6	136.9	136.3
157.5°	217.1	203.0	188.4	173.0	160.3	148.9	140.9	136.3	133.6	133.6
160°	196.4	185.7	173.7	162.3	152.3	142.9	136.9	132.9	130.9	130.9
162.5°	179.7	171.0	161.6	153.0	144.3	138.3	133.6	130.9	129.6	129.6
165°	165.6	159.6	153.0	145.6	139.6	134.9	131.6	129.6	128.9	128.9
167.5°	155.6	150.3	144.9	140.3	136.3	132.2	130.2	128.9	128.9	128.2
170°	146.9	143.6	138.9	135.6	132.2	130.2	128.9	128.2	128.2	127.6
172.5°	140.3	137.6	134.9	132.2	130.2	128.9	128.2	128.2	128.2	128.2
175°	136.3	134.3	132.2	130.9	129.6	128.2	128.2	128.9	128.9	128.9
177.5°	132.9	132.2	130.9	130.2	129.6	129.6	129.6	130.2	130.9	130.9
180°	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9	132.9

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

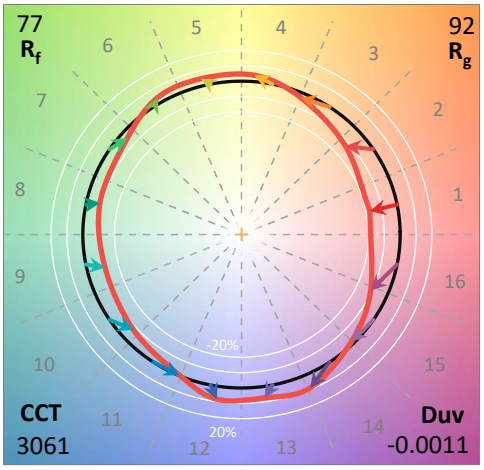
Test Information

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

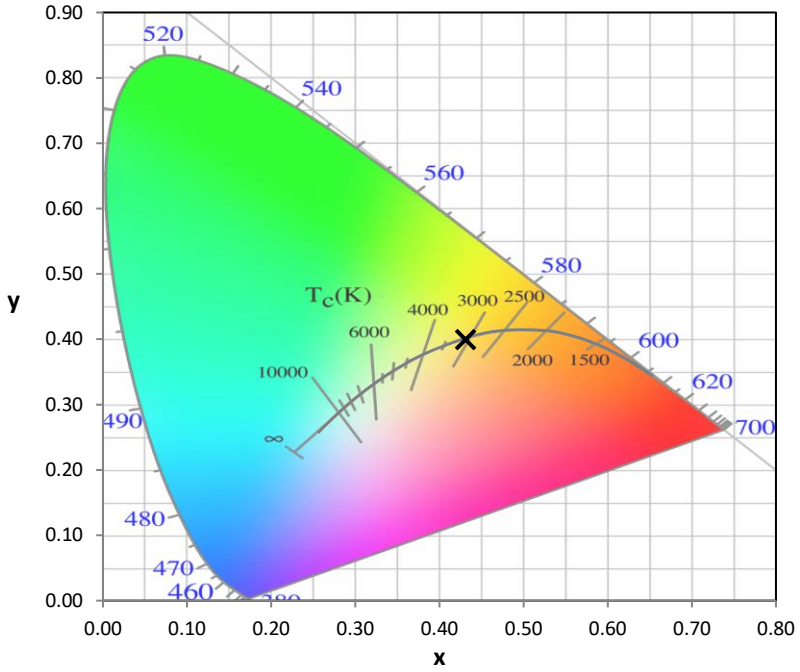
Stabilization Time:	56M
Operation Time:	1H 56M
Sphere Temperature (°C):	24.8

REPORT NUMBER: SP1-2501-332-4

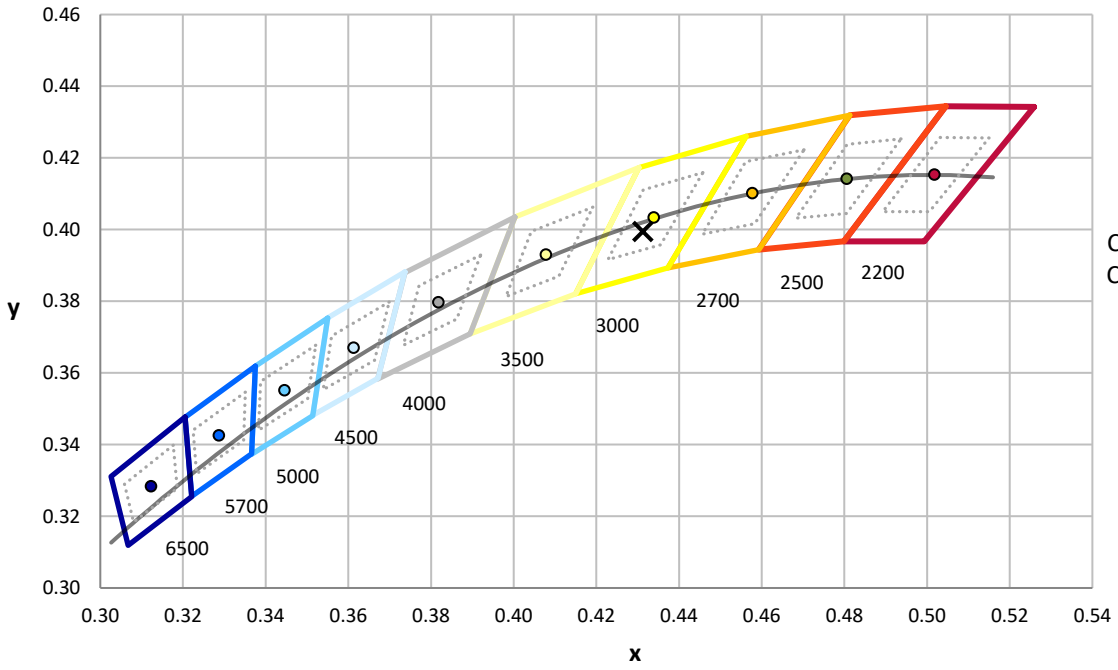
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

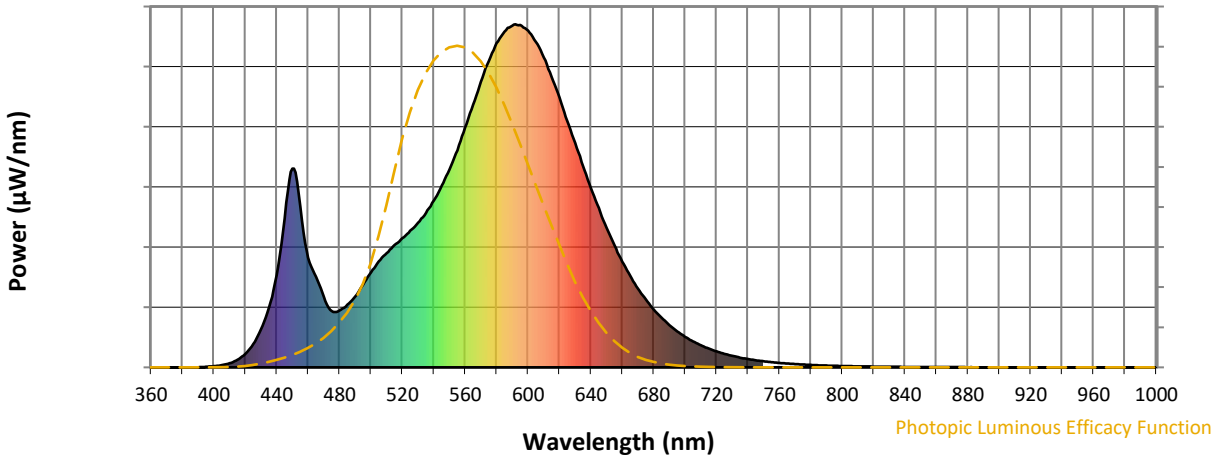


CCT = 3061K
CIE x = 0.4312
CIE y = 0.3995
Duv = -0.0011

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-4

Photopic Flux vs. Wavelength

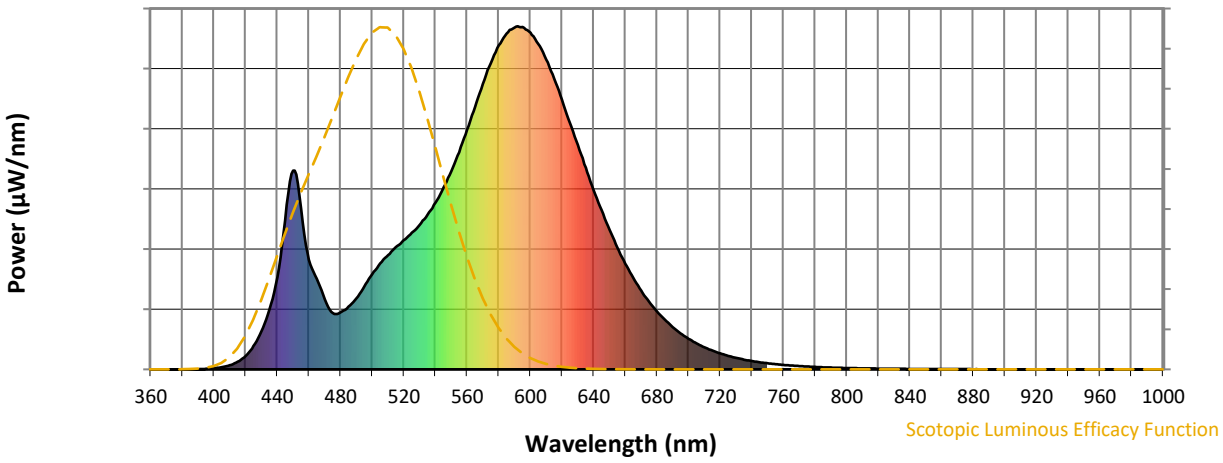


Photopic Lumens: NR

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

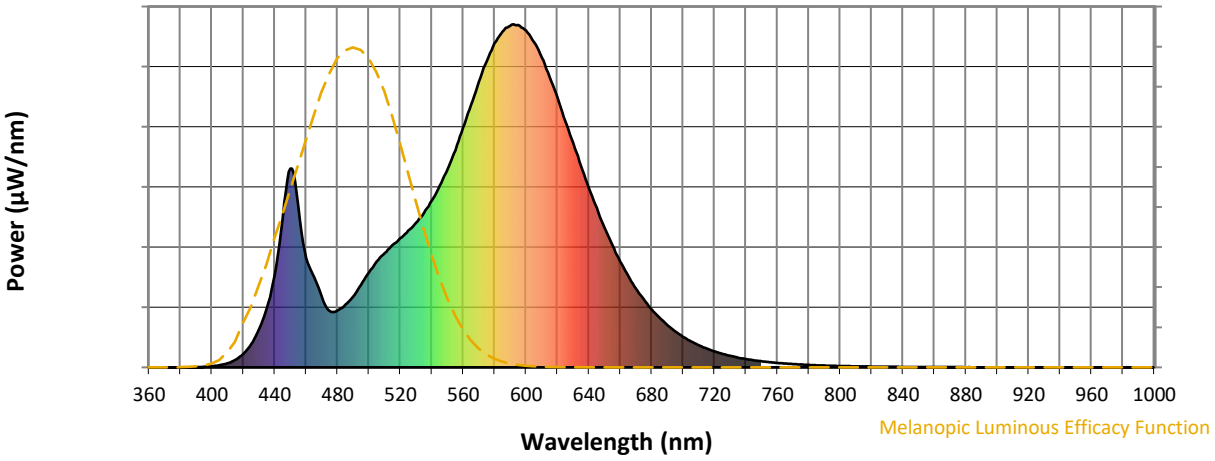


Scotopic Lumens: NR **S/P: 1.29**

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			

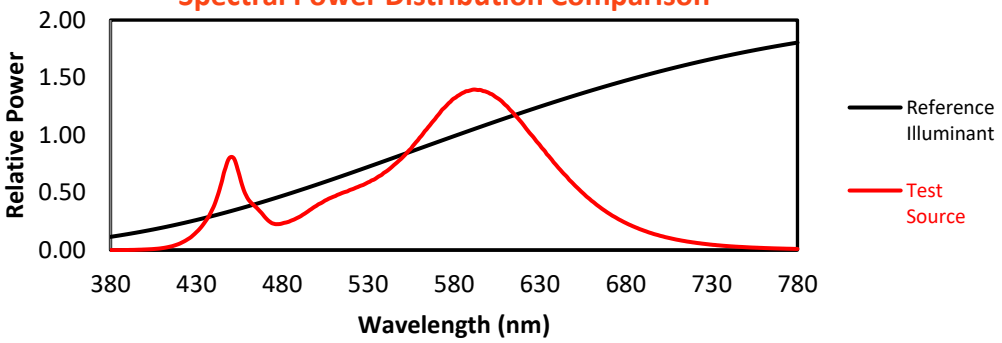
REPORT NUMBER: SP1-2501-332-4

TM-30-18

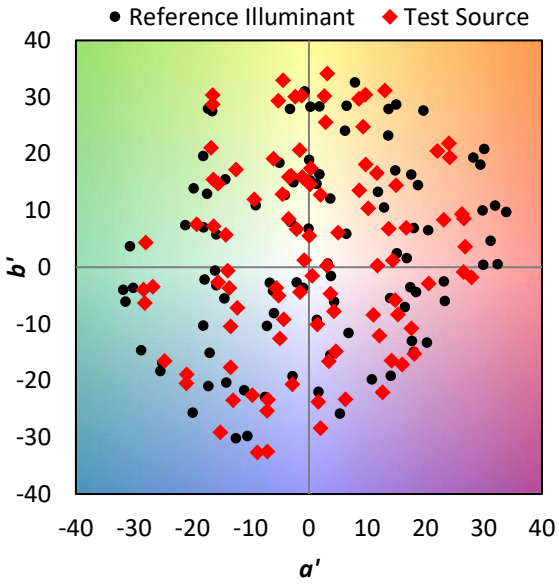
Summary

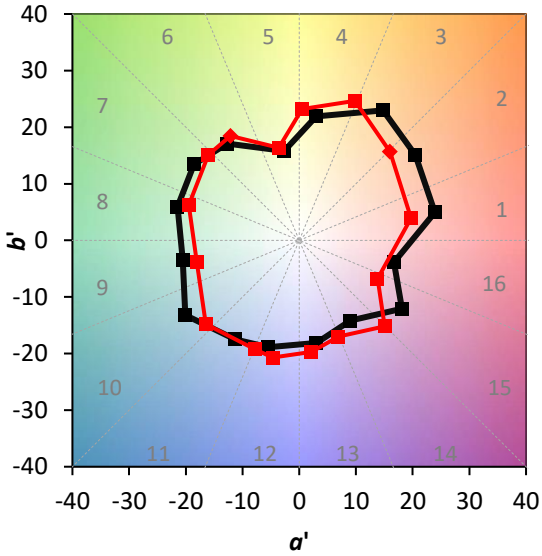
R_f = 76.8
R_g = 92.2
CIE R_a = 71.7
R_9 = -40.3

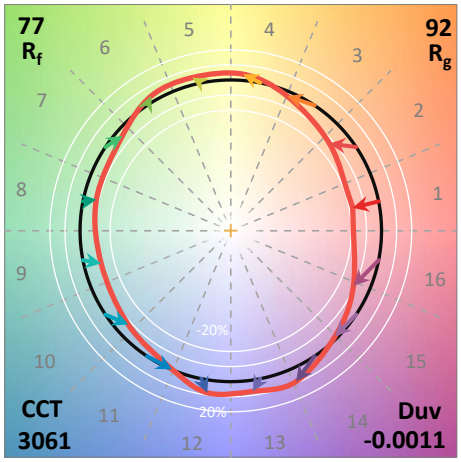
Spectral Power Distribution Comparison

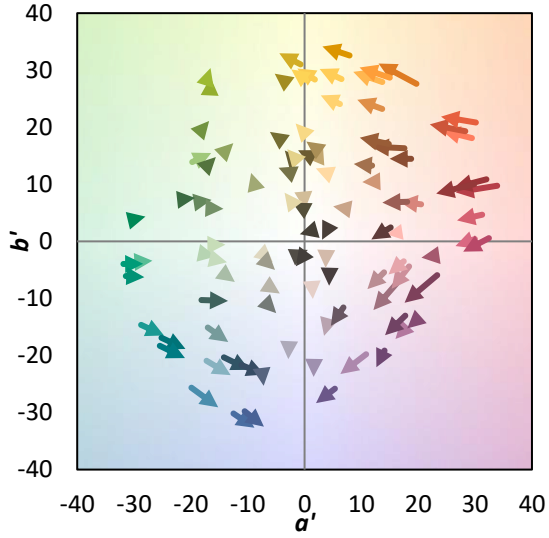


Color Vector Graphics







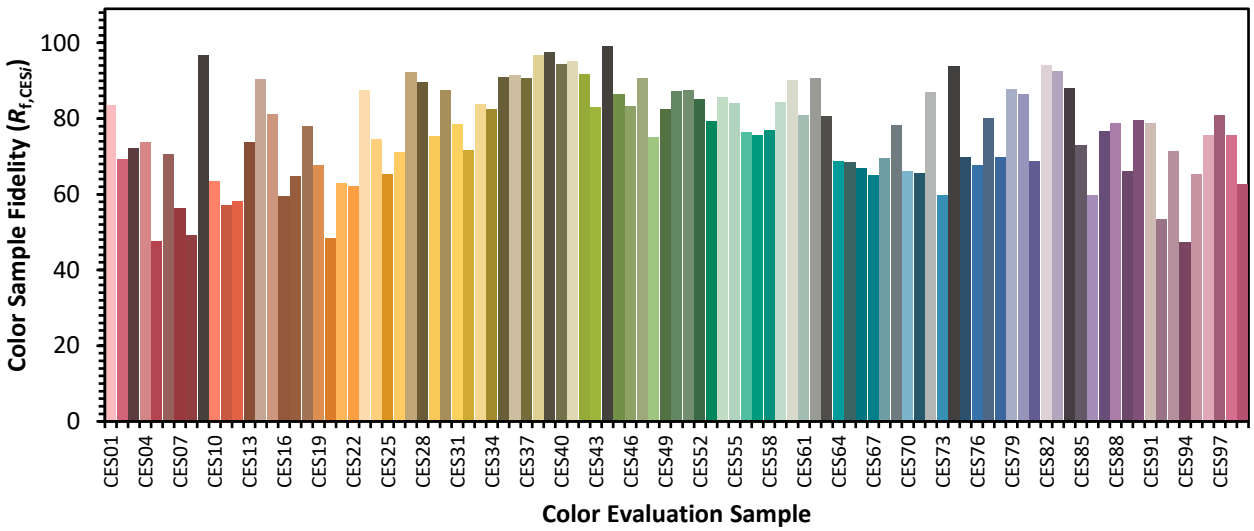


REPORT NUMBER: SP1-2501-332-4

TM-30-18

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

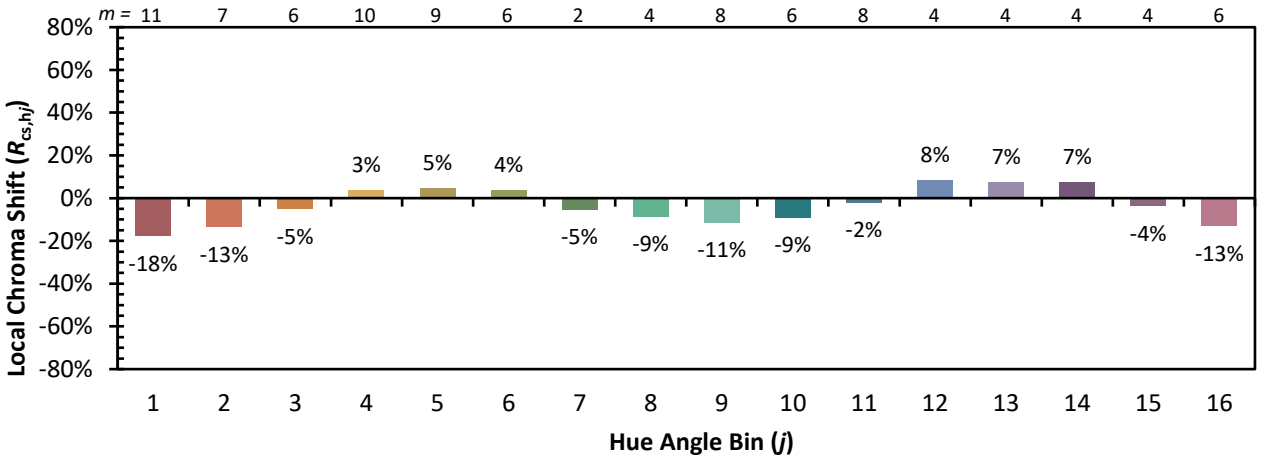
CES01 = 86	CES26 = 71	CES51 = 88	CES76 = 68
CES02 = 62	CES27 = 92	CES52 = 85	CES77 = 80
CES03 = 31	CES28 = 90	CES53 = 79	CES78 = 70
CES04 = 71	CES29 = 75	CES54 = 86	CES79 = 88
CES05 = 49	CES30 = 87	CES55 = 84	CES80 = 87
CES06 = 51	CES31 = 79	CES56 = 76	CES81 = 69
CES07 = 41	CES32 = 72	CES57 = 76	CES82 = 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	

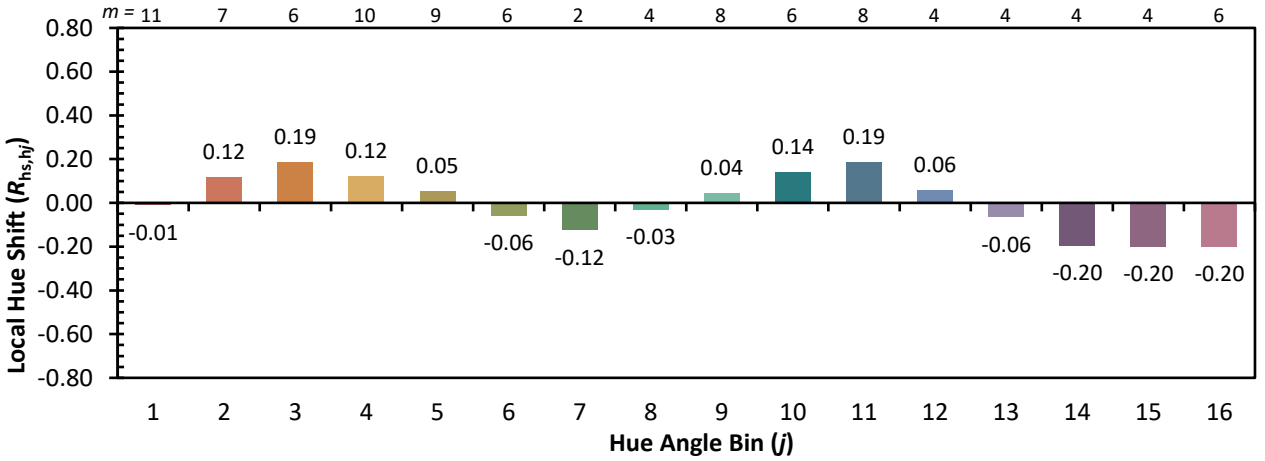


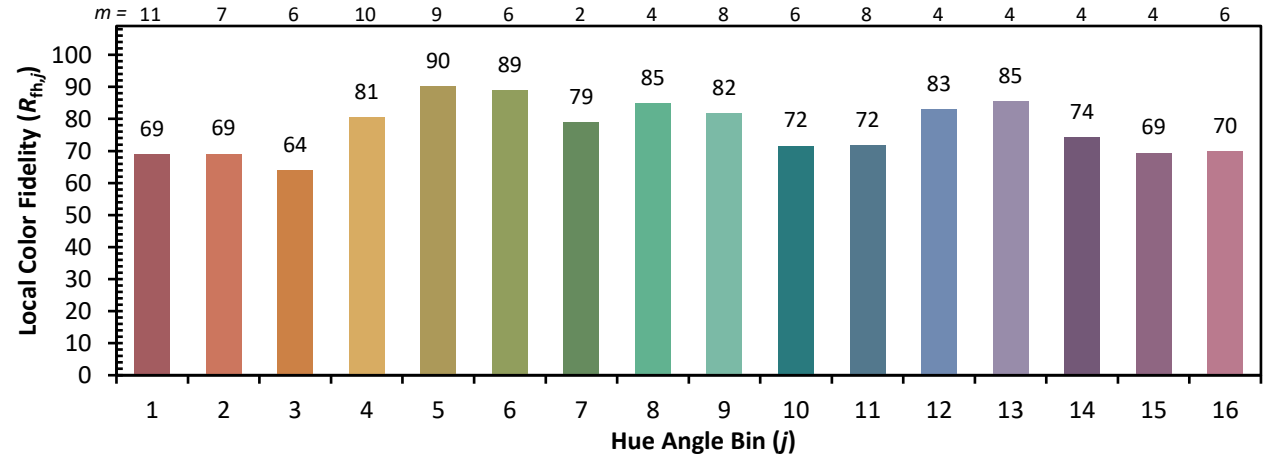
REPORT NUMBER: SP1-2501-332-4

TM-30-18

Color Rendition by Hue-Angle Bin



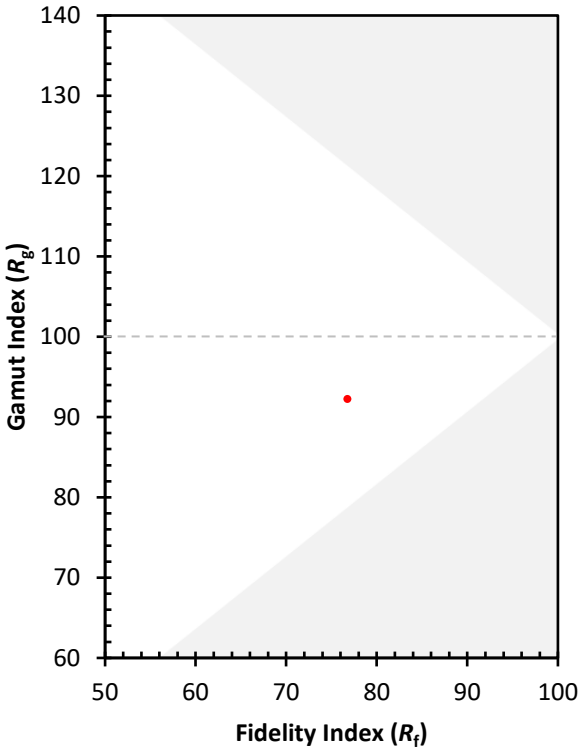


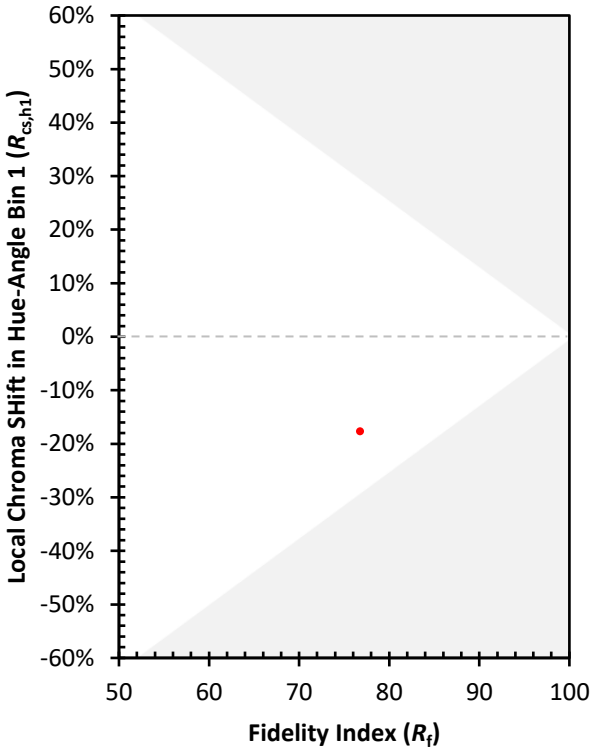


REPORT NUMBER: SP1-2501-332-4

TM-30-18

Measure Comparisons





(END OF REPORT)