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: P1224024

Luminaire Tested: **FFX-CLB-80-727-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:	P1224024
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-80-727-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) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10528.7 lumens
Efficiency:	N/A
Efficacy:	128.7 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

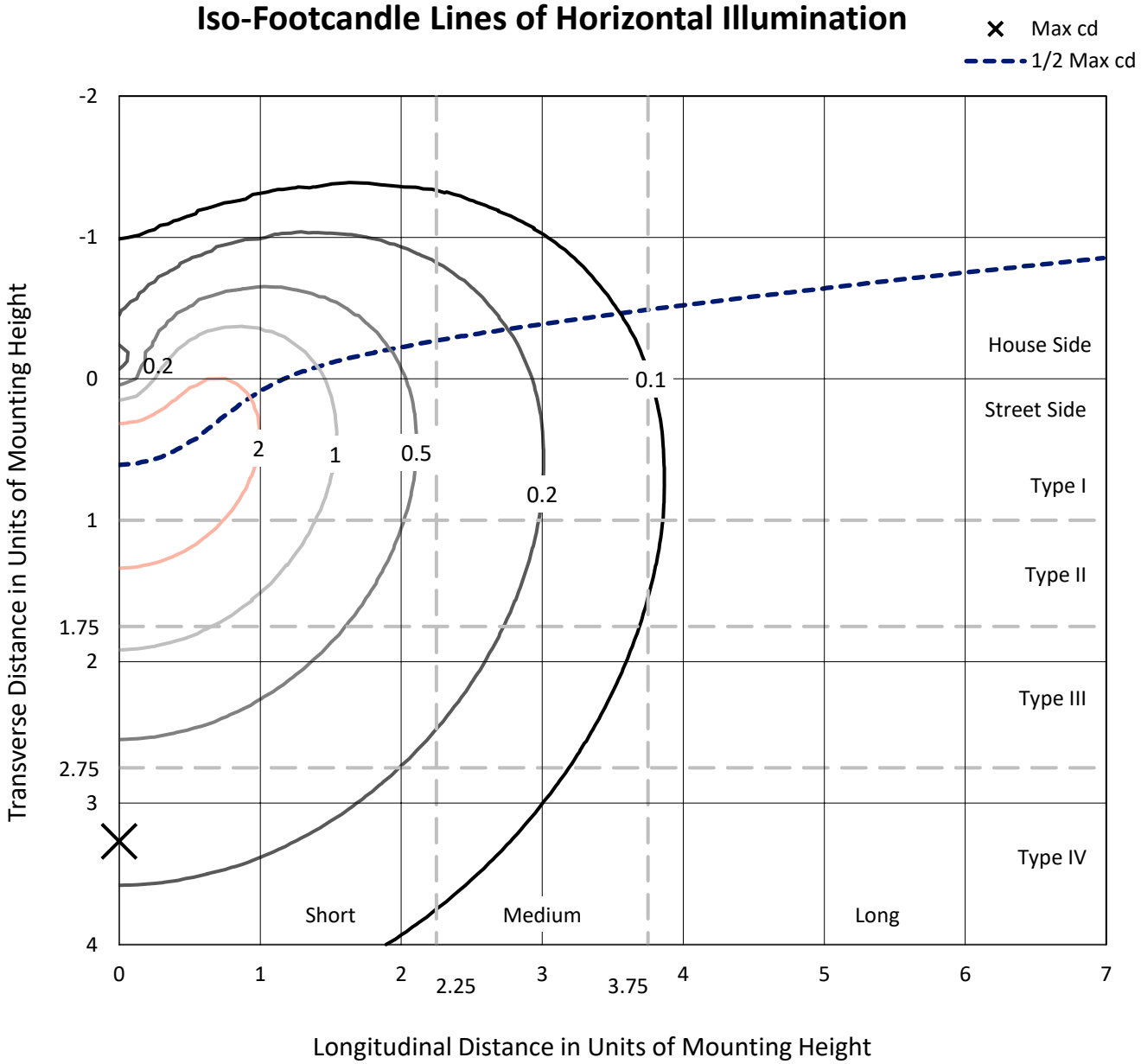


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



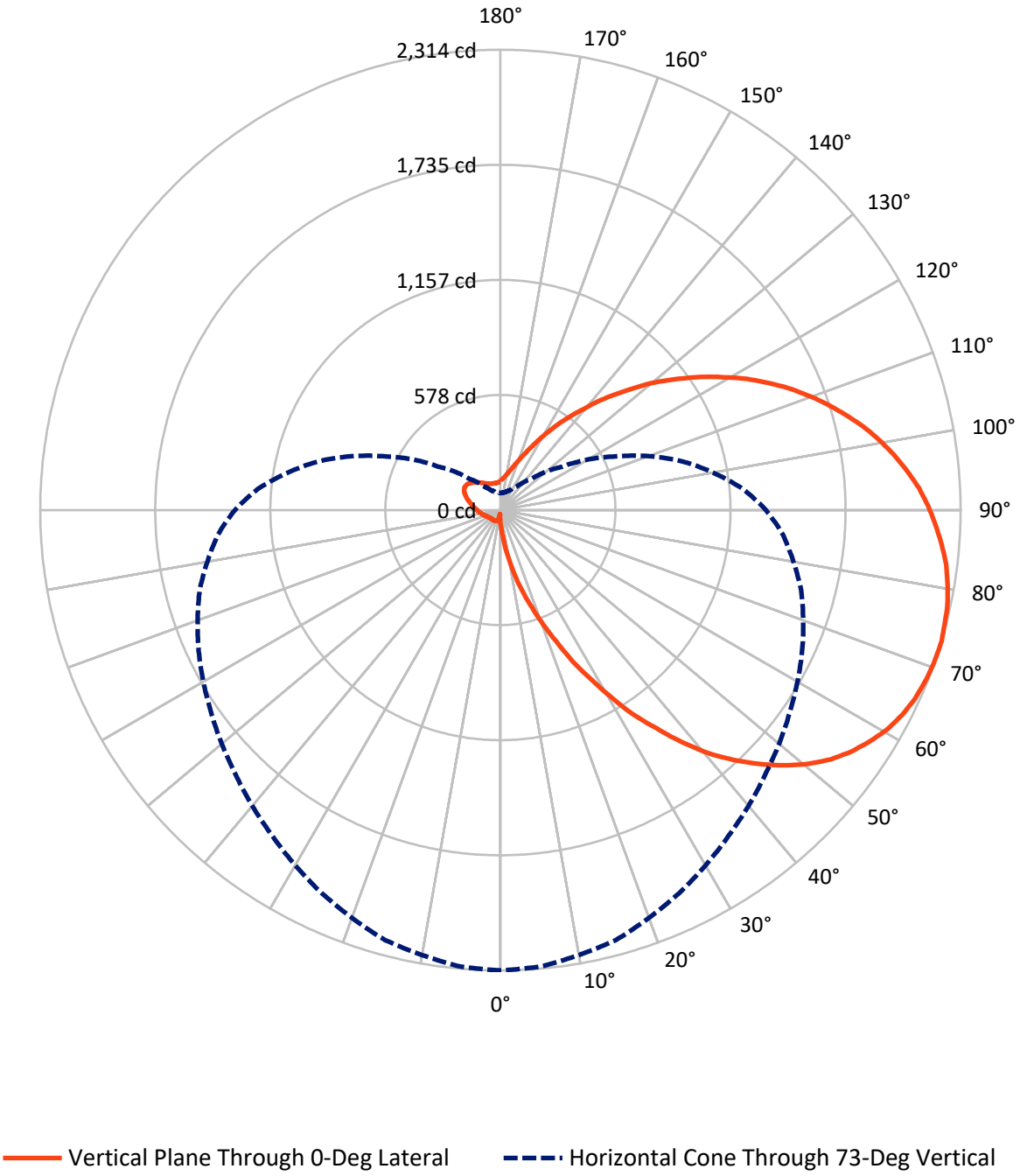
Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

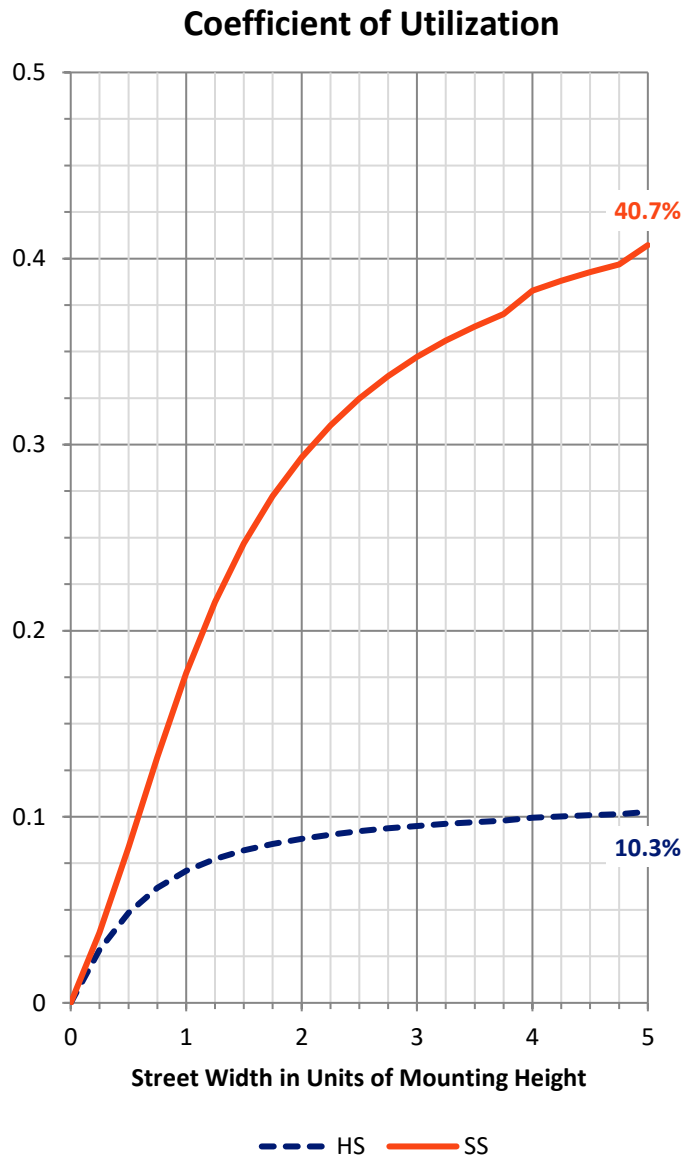
REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.2	1145.9	2312.1
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	4916.9	3299.6	8216.5
	% Fixture	46.7	31.3	78.0
Total	Lumens	6083.1	4445.6	10528.7
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.7	0.1
10°-20°	74.6	0.7
20°-30°	225.4	2.1
30°-40°	469.5	4.5
40°-50°	744.1	7.1
50°-60°	977.5	9.3
60°-70°	1138.9	10.8
70°-80°	1220.7	11.6
80°-90°	1221.6	11.6
90°-100°	1145.6	10.9
100°-110°	1007.8	9.6
110°-120°	832.2	7.9
120°-130°	626.4	5.9
130°-140°	413.3	3.9
140°-150°	237.0	2.3
150°-160°	117.6	1.1
160°-170°	51.3	0.5
170°-180°	14.4	0.1
0°-90°	6083.1	57.8
0°-180°	10528.7	100.0



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

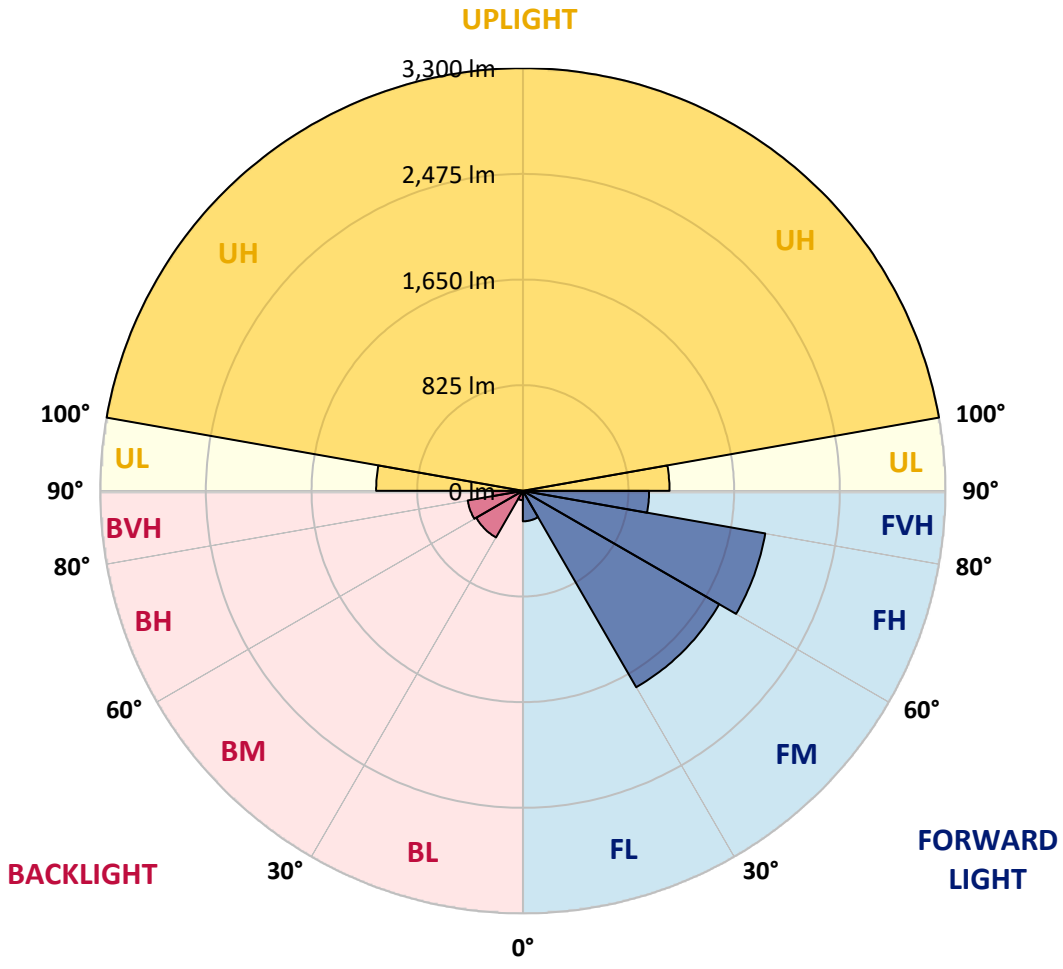
Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-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°)	238.0	2.3			
FM	(30°-60°)	1770.9	16.8			
FH	(60°-80°)	1922.2	18.3			G2/5000
FVH	(80°-90°)	985.8	9.4			G5
BL	(0°-30°)	72.8	0.7	B0/110		
BM	(30°-60°)	420.2	4.0	B1/1000		
BH	(60°-80°)	437.4	4.2	B1/500		G1/500
BVH	(80°-90°)	235.8	2.2			G3/500
UL	(90°-100°)	1145.6	10.9		U5	
UH	(100°-180°)	3300.0	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: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
2.5°	95.0	95.7	95.0	96.4	92.8	92.8	89.9	87.1	83.5	79.2	76.3
5°	141.0	140.3	140.3	141.0	138.9	132.4	125.2	115.1	106.5	97.1	92.1
7.5°	202.9	200.0	197.2	196.4	189.3	179.9	169.8	158.3	146.1	133.1	123.8
10°	267.7	269.8	267.0	259.1	250.4	239.6	226.7	210.8	195.0	177.0	166.2
12.5°	351.2	345.4	338.2	330.3	321.7	311.6	290.7	272.7	250.4	228.1	213.7
15°	432.5	427.4	427.4	417.4	403.7	388.6	369.2	346.8	315.9	280.6	267.7
17.5°	516.0	516.7	509.5	498.0	485.7	466.3	445.4	413.8	382.1	345.4	323.1
20°	613.8	610.9	605.9	597.3	575.7	558.4	532.5	497.2	454.1	409.5	382.1
22.5°	715.3	716.7	716.7	703.0	682.9	659.2	629.6	589.3	538.3	480.7	447.6
25°	841.9	841.2	827.5	811.7	795.9	771.4	734.0	685.1	628.9	559.8	521.0
27.5°	957.1	956.3	953.5	939.1	915.3	883.7	839.8	786.5	722.5	639.7	593.7
30°	1085.2	1088.0	1080.1	1067.9	1036.9	1004.6	953.5	890.9	815.3	726.1	674.3
32.5°	1224.0	1218.3	1211.8	1196.0	1162.1	1116.8	1059.2	994.5	911.7	809.5	752.7
35°	1344.2	1355.0	1344.9	1320.5	1278.7	1230.5	1167.2	1094.5	1004.6	895.2	830.4
37.5°	1479.5	1477.3	1462.2	1438.5	1398.2	1337.0	1270.1	1185.9	1085.2	971.5	899.5
40°	1605.4	1596.8	1588.2	1552.9	1501.8	1440.6	1357.9	1272.2	1168.6	1040.5	967.9
42.5°	1717.0	1716.2	1693.2	1658.0	1593.9	1526.3	1440.6	1344.9	1237.0	1104.6	1022.5
45°	1819.9	1817.7	1795.4	1742.9	1682.4	1601.1	1511.9	1412.6	1298.9	1159.3	1080.8
47.5°	1917.0	1911.2	1880.3	1827.1	1750.8	1665.1	1573.0	1468.7	1351.4	1208.2	1126.2
50°	2005.5	2000.5	1964.5	1896.9	1815.5	1724.2	1623.4	1515.5	1401.1	1257.1	1168.6
52.5°	2081.1	2072.4	2030.7	1958.0	1865.2	1768.8	1663.7	1555.8	1439.9	1291.7	1206.0
55°	2141.5	2132.2	2087.6	2006.2	1909.1	1804.7	1698.2	1591.0	1470.1	1322.6	1234.8
57.5°	2191.9	2184.7	2135.8	2046.5	1942.9	1835.7	1727.8	1618.4	1498.2	1351.4	1260.0
60°	2235.8	2227.2	2171.7	2079.6	1970.3	1859.4	1749.3	1640.0	1521.9	1373.7	1283.0
62.5°	2266.7	2260.3	2202.0	2103.4	1989.7	1877.4	1763.7	1658.0	1539.9	1393.9	1300.3
65°	2289.0	2281.1	2222.1	2117.8	2001.9	1886.1	1774.5	1665.9	1551.5	1406.1	1313.3
67.5°	2302.0	2296.2	2234.3	2127.8	2007.0	1890.4	1779.6	1673.8	1560.8	1416.2	1323.3
70°	2310.6	2302.0	2239.4	2130.0	2005.5	1889.7	1779.6	1674.5	1565.8	1423.4	1329.1
72.5°	2312.8	2303.4	2238.7	2126.4	2001.2	1882.5	1776.0	1675.2	1567.3	1427.0	1334.9
73°	2313.5	2303.4	2237.9	2125.0	1999.0	1881.7	1775.2	1673.8	1565.8	1426.2	1334.9
75°	2305.6	2299.1	2232.2	2116.3	1991.8	1874.5	1770.2	1670.2	1565.8	1427.0	1334.1
77.5°	2297.7	2287.6	2217.8	2104.1	1975.3	1861.6	1759.4	1663.0	1560.8	1425.5	1333.4
80°	2279.0	2268.9	2199.1	2081.1	1954.4	1842.9	1744.3	1651.5	1551.5	1417.6	1327.7
82.5°	2257.4	2245.9	2173.2	2054.4	1929.2	1819.1	1724.9	1636.4	1539.2	1408.3	1319.0
85°	2225.7	2217.1	2143.0	2022.1	1900.5	1794.7	1702.6	1618.4	1523.4	1393.9	1306.1
87.5°	2189.0	2181.8	2104.8	1985.4	1863.8	1763.0	1676.7	1594.6	1505.4	1378.0	1291.7
90°	2150.9	2142.2	2065.2	1943.6	1827.8	1728.5	1646.4	1569.4	1483.1	1358.6	1273.0
92.5°	2107.0	2096.9	2019.2	1901.2	1788.2	1693.2	1616.9	1541.4	1457.9	1336.3	1253.5
95°	2053.7	2044.4	1967.4	1849.4	1738.5	1652.2	1578.1	1508.3	1428.4	1309.7	1229.8
97.5°	1996.9	1988.2	1910.5	1797.6	1690.3	1605.4	1536.3	1473.0	1396.7	1283.8	1203.2
100°	1935.7	1924.2	1847.2	1738.5	1632.8	1555.8	1493.9	1437.0	1362.2	1251.4	1174.4
102.5°	1871.0	1860.2	1786.8	1680.3	1581.0	1506.1	1450.0	1394.6	1326.2	1221.9	1146.3
105°	1797.6	1791.8	1717.7	1614.8	1521.9	1452.9	1400.3	1352.1	1287.4	1185.9	1116.8
107.5°	1724.9	1713.4	1644.3	1545.7	1458.6	1396.0	1350.7	1306.1	1247.1	1149.9	1084.4

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

Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1647.9*	1636.4	1574.5	1480.2	1399.6	1339.9	1298.2	1258.6	1205.3	1114.7	1052.8
112.5°	*1570.2*	1557.2	1496.0	1409.7	1331.3	1282.3	1244.2	1211.1	1162.9	1079.4	1018.2
115°	*1486.0*	1480.9	1421.2	1338.5	1269.4	1223.3	1190.2	1160.0	1114.7	1041.3	985.1
117.5°	*1403.2*	1393.9	1342.0	1265.8	1201.7	1158.6	1133.4	1106.7	1065.7	996.6	947.7
120°	*1314.0*	1311.8	1262.2	1190.9	1131.2	1097.4	1072.9	1050.6	1014.6	952.0	906.0
122.5°	*1229.8*	1225.5	1178.0	1113.9	1064.3	1032.6	1013.2	993.8	962.8	904.5	861.4
125°	*1140.6*	1135.5	1098.1	1045.6	998.1	967.9	949.1	934.0	906.0	853.4	813.1
127.5°	*1057.8*	1052.8	1018.9	968.6	931.2	903.8	886.5	872.9	844.8	799.5	764.2
130°	*975.8*	967.1	937.6	897.3	859.9	841.2	823.9	813.9	785.1	742.6	711.7
132.5°	*888.0*	883.7	862.8	825.4	795.2	775.7	760.6	747.7	725.4	686.5	658.4
135°	*810.3*	805.9	786.5	754.9	734.0	716.0	702.3	688.7	665.6	628.2	604.5
137.5°	*736.1*	732.5	715.3	693.7	667.1	656.3	646.9	630.4	610.2	576.4	554.8
140°	*658.4*	659.9	646.2	626.8	610.2	597.3	587.9	574.2	554.1	525.3	503.7
142.5°	*594.4*	596.5	580.0	566.3	551.2	541.1	531.8	520.3	500.8	474.9	458.4
145°	*533.9*	528.9	522.4	509.5	495.1	488.6	479.3	469.2	454.1	428.2	414.5
147.5°	*472.8*	471.3	464.9	456.2	444.7	434.6	427.4	421.7	406.6	385.0	372.8
150°	*417.4*	415.9	412.3	405.9	395.8	389.3	383.5	375.6	361.2	344.7	333.9
152.5°	*368.4*	368.4	366.3	357.6	353.3	346.1	338.9	334.6	320.2	306.5	297.2
155°	*326.0*	326.0	323.1	318.8	310.9	306.5	302.2	295.8	285.7	274.9	266.3
157.5°	*289.3*	290.0	286.4	282.8	277.0	273.4	269.1	262.7	256.2	246.1	239.6
160°	*256.9*	257.6	256.2	253.3	247.5	243.9	240.3	235.3	229.6	221.6	215.9
162.5°	*231.0*	230.3	228.8	226.0	222.4	220.2	215.9	212.3	207.2	201.5	196.4
165°	*210.8*	208.7	208.0	205.8	202.2	200.0	196.4	193.6	190.0	184.2	182.1
167.5°	*192.9*	192.9	191.4	190.0	187.1	184.2	181.3	179.2	176.3	172.7	169.8
170°	*178.5*	178.5	177.0	175.6	172.7	171.3	169.1	166.9	164.8	161.9	160.5
172.5°	*166.9*	166.9	166.2	164.1	162.6	160.5	159.8	157.6	155.4	154.0	152.6
175°	*158.3*	158.3	156.9	155.4	154.0	152.6	151.1	150.4	149.7	148.2	147.5
177.5°	*151.8*	151.1	150.4	149.0	147.5	146.8	146.1	145.4	145.4	144.6	143.9
180°	*143.2*	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2

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

Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
2.5°	73.4	66.9	59.7	53.3	49.7	44.6	41.7	40.3	41.7	39.6
5°	87.1	75.6	64.0	55.4	46.1	38.9	32.4	25.9	21.6	20.9
7.5°	115.9	102.9	87.1	72.7	59.7	48.2	38.1	30.2	24.5	23.7
10°	153.3	133.8	113.7	93.5	74.8	59.7	47.5	38.9	36.0	35.3
12.5°	200.0	172.0	143.9	117.3	94.3	74.1	60.4	51.1	46.8	46.1
15°	249.0	213.7	177.7	143.2	112.3	87.8	70.5	60.4	55.4	54.7
17.5°	301.5	255.5	206.5	166.2	129.5	100.0	78.4	64.8	59.0	57.6
20°	354.8	297.2	241.1	188.5	143.9	107.9	82.8	66.9	59.7	58.3
22.5°	414.5	345.4	275.6	210.1	156.9	115.9	86.4	68.4	60.4	59.0
25°	482.1	394.3	311.6	235.3	171.3	123.1	89.9	70.5	61.2	59.7
27.5°	551.2	449.0	348.3	257.6	183.5	128.1	92.8	71.2	61.9	60.4
30°	621.0	503.7	385.7	279.2	194.3	133.8	94.3	72.0	61.9	61.2
32.5°	693.7	554.8	421.7	299.4	203.6	137.4	95.7	72.7	62.6	61.2
35°	759.2	608.8	455.5	318.8	212.3	140.3	96.4	72.7	62.6	61.2
37.5°	821.8	654.8	486.4	334.6	218.8	142.5	97.1	72.7	62.6	61.2
40°	887.3	703.8	514.5	349.0	223.8	143.9	97.1	72.7	62.6	61.9
42.5°	940.5	744.8	538.3	359.1	227.4	143.9	97.1	72.7	63.3	61.9
45°	988.7	778.6	561.3	368.4	229.6	143.9	96.4	73.4	63.3	62.6
47.5°	1030.5	812.4	578.6	374.9	230.3	143.9	96.4	73.4	64.0	63.3
50°	1069.3	839.8	593.7	379.9	231.0	143.2	96.4	74.1	64.8	63.3
52.5°	1102.4	862.1	605.9	382.8	229.6	141.8	96.4	74.8	66.2	64.8
55°	1130.5	882.9	614.5	384.3	228.1	141.0	96.4	75.6	66.9	66.2
57.5°	1153.5	899.5	622.5	385.0	226.7	140.3	97.1	77.0	69.1	68.4
60°	1174.4	913.2	628.2	385.0	225.2	139.6	97.9	78.4	70.5	69.8
62.5°	1190.9	924.0	632.5	384.3	224.5	139.6	99.3	80.6	72.7	72.0
65°	1202.4	931.9	634.7	382.8	223.1	140.3	100.7	82.8	75.6	74.8
67.5°	1213.2	939.1	636.1	382.1	222.4	141.0	102.9	85.6	78.4	77.7
70°	1219.7	943.4	636.8	381.4	221.6	142.5	105.1	88.5	82.0	81.3
72.5°	1222.6	946.3	637.6	379.9	222.4	143.9	107.9	91.4	85.6	84.9
73°	*1223.3*	*946.3*	*636.8*	*379.9*	*222.4*	*144.6*	*108.7*	*92.8*	*86.4*	*85.6*
75°	1224.8	946.3	636.1	379.2	223.1	146.1	110.8	95.7	89.2	89.2
77.5°	1222.6	944.8	634.7	378.5	223.8	149.0	114.4	99.3	93.5	92.8
80°	1218.3	941.2	632.5	378.5	225.2	151.8	118.7	103.6	97.9	97.1
82.5°	1208.9	934.8	629.6	377.8	227.4	155.4	123.1	107.9	102.9	102.2
85°	1199.6	926.8	625.3	377.8	230.3	159.8	127.4	113.0	107.9	107.2
87.5°	1185.2	917.5	621.0	377.1	233.1	163.3	131.7	118.0	112.3	112.3
90°	1168.6	907.4	616.7	377.8	236.0	168.4	137.4	123.8	118.0	117.3
92.5°	1152.1	895.9	611.7	379.2	241.1	173.4	143.2	129.5	123.8	122.3
95°	1129.8	880.1	605.9	379.9	245.4	179.2	149.0	135.3	129.5	129.5
97.5°	1106.7	865.7	599.4	382.1	251.1	186.4	156.9	142.5	136.7	136.7
100°	1082.3	850.6	595.1	384.3	256.9	194.3	164.1	149.7	143.9	143.9
102.5°	1056.4	834.0	590.8	388.6	265.5	202.2	172.7	158.3	151.8	151.8
105°	1029.7	818.2	586.5	393.6	274.2	212.3	182.1	167.7	161.2	161.2
107.5°	1003.8	803.1	582.9	400.1	283.5	222.4	191.4	177.0	170.5	169.1

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

Scaled Data Report

REPORT NUMBER: P1224024
CATALOG NUMBER: FFX-CLB-80-727-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	976.5	787.2	580.0	406.6	294.3	233.9	202.9	186.4	179.2	179.2
112.5°	947.0	770.7	577.8	413.0	305.8	245.4	213.0	196.4	189.3	187.8
115°	916.0	754.1	573.5	420.2	315.9	256.9	223.8	205.1	197.2	196.4
117.5°	885.8	734.7	568.5	425.3	325.3	266.3	232.4	213.7	205.1	204.4
120°	850.6	713.1	559.8	426.7	332.5	273.4	239.6	219.5	210.8	209.4
122.5°	811.7	685.1	547.6	425.3	336.1	278.5	243.9	223.8	213.7	213.0
125°	767.8	654.1	531.8	420.2	336.8	280.6	245.4	224.5	215.2	213.7
127.5°	721.8	623.2	510.9	410.2	332.5	279.2	243.9	223.1	213.0	212.3
130°	674.3	586.5	486.4	397.2	325.3	274.2	240.3	219.5	209.4	208.7
132.5°	626.8	547.6	459.8	379.9	315.2	266.3	233.9	213.7	204.4	202.9
135°	575.7	509.5	432.5	362.0	301.5	257.6	226.0	206.5	197.2	196.4
137.5°	528.9	469.9	404.4	341.8	288.6	246.1	217.3	199.3	191.4	190.0
140°	482.8	431.8	374.2	320.2	272.0	234.6	207.2	191.4	183.5	182.8
142.5°	440.4	396.5	347.6	299.4	256.9	223.1	198.6	183.5	177.0	175.6
145°	396.5	359.8	319.5	277.8	240.3	210.8	189.3	175.6	169.8	168.4
147.5°	358.4	326.0	291.4	256.2	225.2	198.6	179.9	168.4	163.3	162.6
150°	322.4	295.0	264.8	236.0	208.7	187.1	171.3	161.2	156.9	156.2
152.5°	290.0	266.3	241.8	217.3	194.3	177.0	163.3	154.7	151.1	151.1
155°	259.8	240.3	220.9	200.8	182.8	168.4	157.6	150.4	147.5	146.8
157.5°	233.9	218.8	202.9	186.4	172.7	160.5	151.8	146.8	143.9	143.9
160°	211.6	200.0	187.1	174.9	164.1	154.0	147.5	143.2	141.0	141.0
162.5°	193.6	184.2	174.1	164.8	155.4	149.0	143.9	141.0	139.6	139.6
165°	178.5	172.0	164.8	156.9	150.4	145.4	141.8	139.6	138.9	138.9
167.5°	167.7	161.9	156.2	151.1	146.8	142.5	140.3	138.9	138.9	138.2
170°	158.3	154.7	149.7	146.1	142.5	140.3	138.9	138.2	138.2	137.4
172.5°	151.1	148.2	145.4	142.5	140.3	138.9	138.2	138.2	138.2	138.2
175°	146.8	144.6	142.5	141.0	139.6	138.2	138.2	138.9	138.9	138.9
177.5°	143.2	142.5	141.0	140.3	139.6	139.6	139.6	140.3	141.0	141.0
180°	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2	143.2

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: SP1-2501-332-3

Test Date: 03/21/2025

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

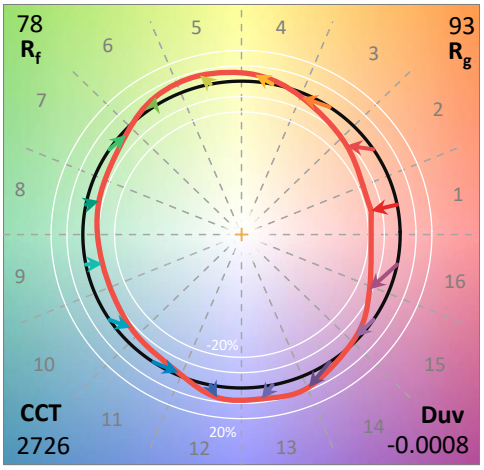
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2501-332-3
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-100-727-U-FR-T5**
Description:	FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K):	2726
CIE u':	0.2616
CIE v':	0.5257
Duv:	-0.0008
CIE x:	0.4564
CIE y:	0.4077
CIE z:	0.1358
Peak Wavelength (nm):	599
Dominant Wavelength (nm):	584
Purity:	59.39437
Rf:	77.8
Rg:	93.1

CRI (Ra):	72.7
R1:	69.3
R2:	86.2
R3:	92.5
R4:	67.2
R5:	69.7
R6:	82.9
R7:	74.2
R8:	39.5
R9:	-32.4
R10:	70.6
R11:	63.6
R12:	64.8
R13:	72.8
R14:	96.1
R15:	60.3



Test Conditions

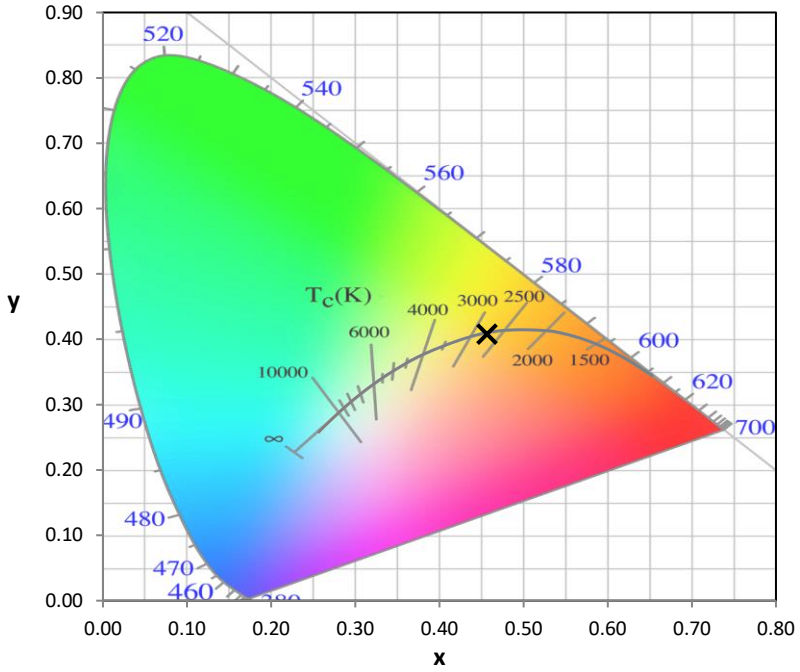
Stabilization Time:	75M
Operation Time:	2H 15M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-3

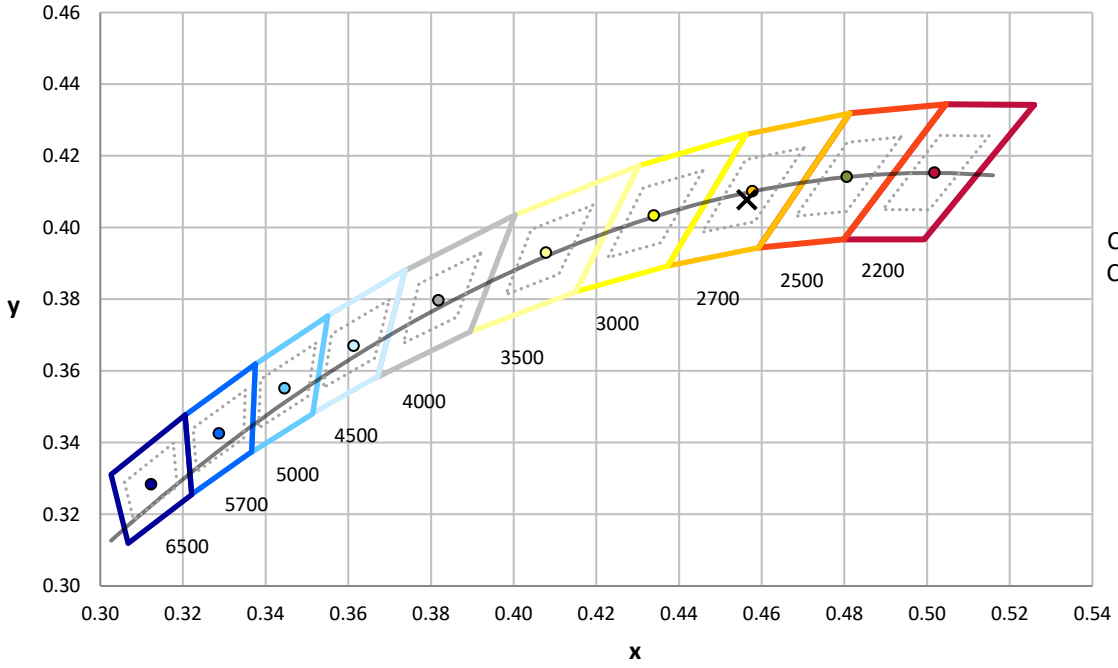
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-3

CIE 1931 Chromaticity Diagram



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

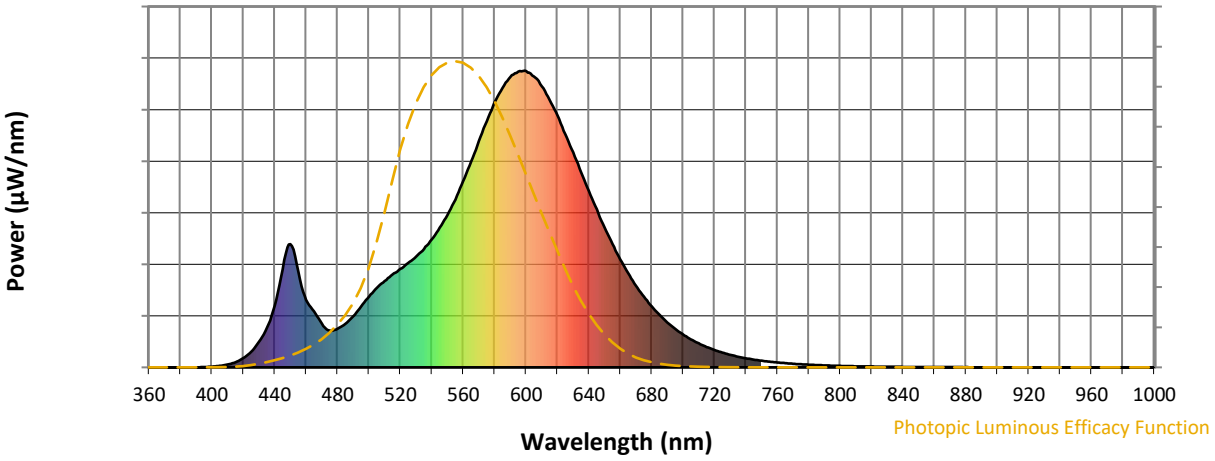


CCT = 2726K
CIE x = 0.4564
CIE y = 0.4077
Duv = -0.0008

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-3

Photopic Flux vs. Wavelength

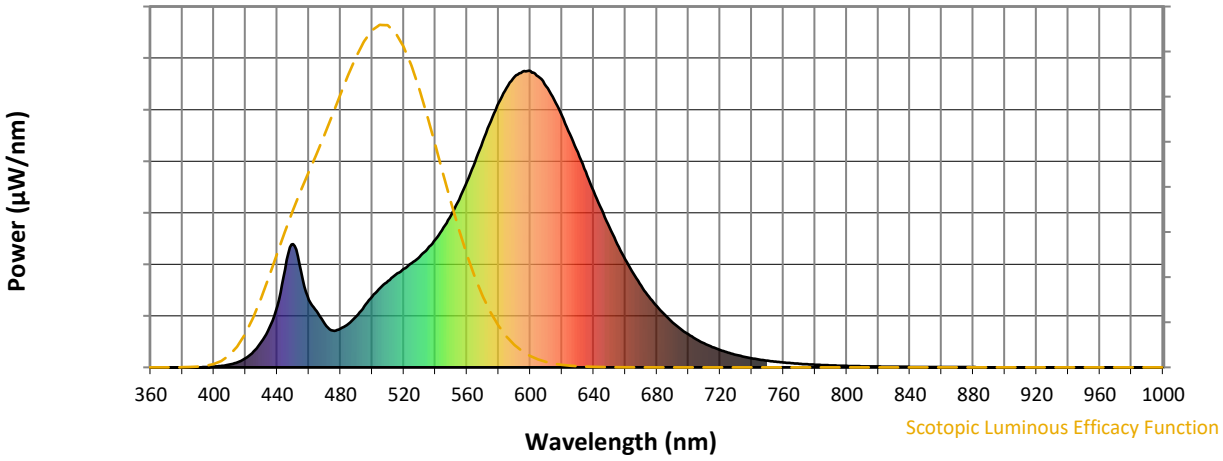


Photopic Lumens: NR

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Scotopic Flux vs. Wavelength

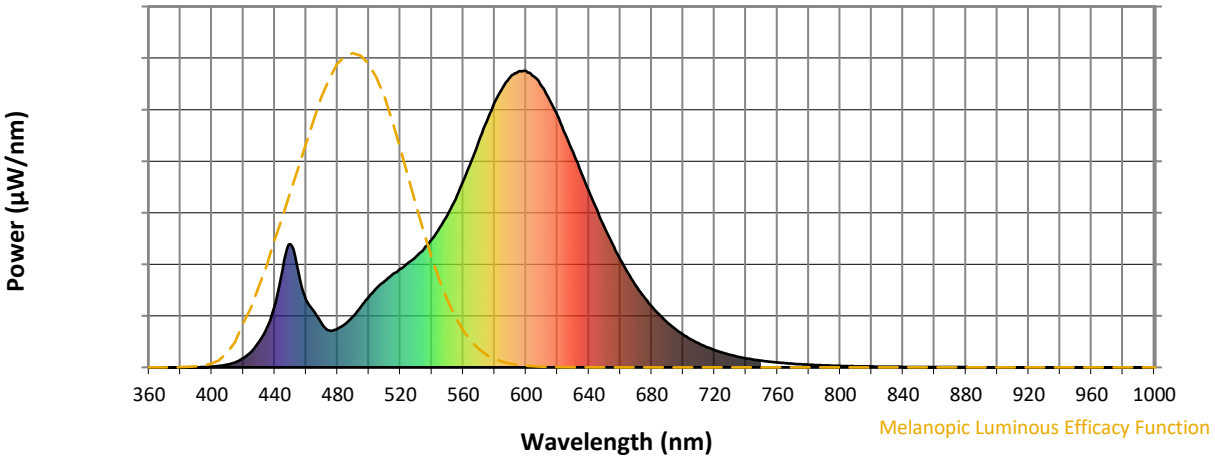


Scotopic Lumens: NR **S/P: 1.16**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2501-332-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.15**

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	172	NR	620	849	NR	750	22	NR	880	1	NR
365	0	NR	495	205	NR	625	786	NR	755	19	NR	885	0	NR
370	0	NR	500	239	NR	630	724	NR	760	17	NR	890	0	NR
375	0	NR	505	268	NR	635	659	NR	765	14	NR	895	0	NR
380	0	NR	510	291	NR	640	594	NR	770	12	NR	900	0	NR
385	0	NR	515	313	NR	645	533	NR	775	10	NR	905	0	NR
390	0	NR	520	332	NR	650	472	NR	780	9	NR	910	0	NR
395	1	NR	525	352	NR	655	416	NR	785	8	NR	915	0	NR
400	3	NR	530	374	NR	660	364	NR	790	7	NR	920	0	NR
405	5	NR	535	399	NR	665	317	NR	795	6	NR	925	0	NR
410	10	NR	540	432	NR	670	275	NR	800	5	NR	930	0	NR
415	18	NR	545	471	NR	675	238	NR	805	4	NR	935	0	NR
420	31	NR	550	513	NR	680	206	NR	810	4	NR	940	0	NR
425	52	NR	555	565	NR	685	177	NR	815	3	NR	945	0	NR
430	86	NR	560	628	NR	690	151	NR	820	3	NR	950	0	NR
435	134	NR	565	693	NR	695	130	NR	825	2	NR	955	0	NR
440	207	NR	570	763	NR	700	111	NR	830	2	NR	960	0	NR
445	330	NR	575	829	NR	705	94	NR	835	2	NR	965	0	NR
450	415	NR	580	893	NR	710	80	NR	840	2	NR	970	0	NR
455	323	NR	585	942	NR	715	68	NR	845	1	NR	975	0	NR
460	228	NR	590	979	NR	720	58	NR	850	1	NR	980	0	NR
465	189	NR	595	996	NR	725	50	NR	855	1	NR	985	0	NR
470	146	NR	600	998	NR	730	43	NR	860	1	NR	990	0	NR
475	125	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	131	NR	610	947	NR	740	31	NR	870	1	NR	1000	0	NR
485	147	NR	615	902	NR	745	26	NR	875	1	NR			

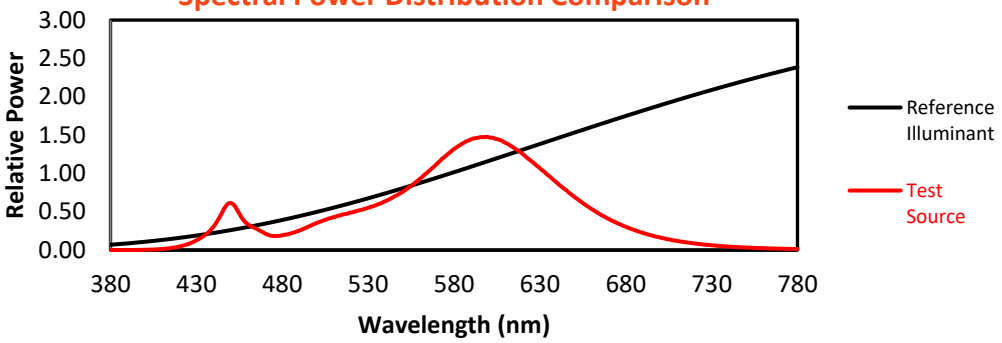
REPORT NUMBER: SP1-2501-332-3

TM-30-18

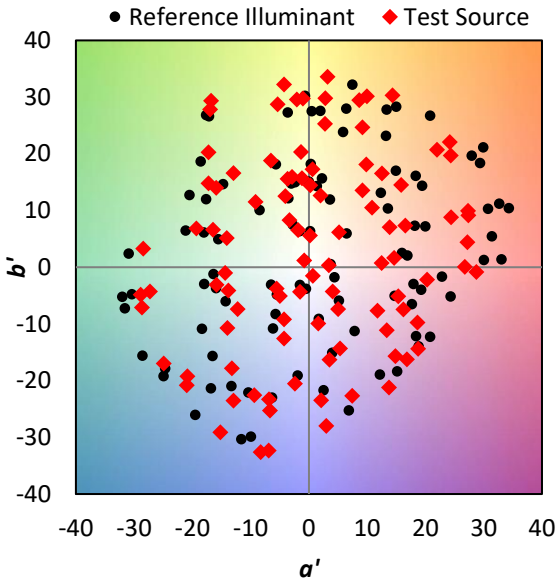
Summary

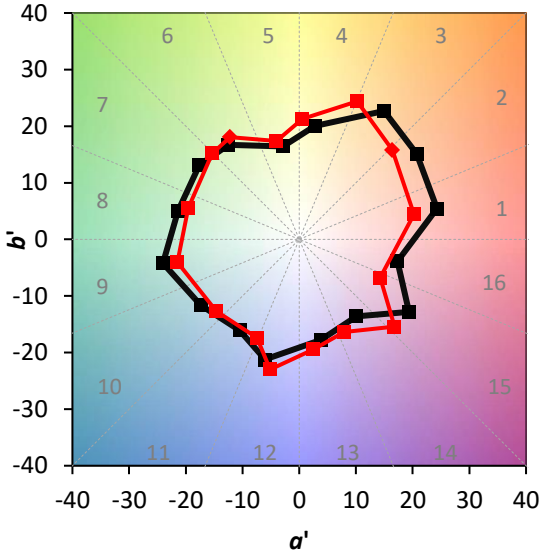
R_f = 77.8
R_g = 93.1
CIE R_a = 72.7
R_9 = -32.4

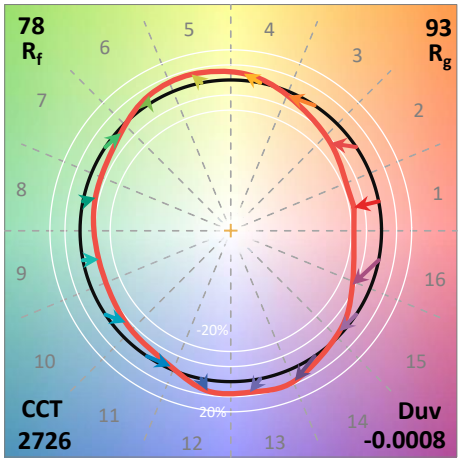
Spectral Power Distribution Comparison

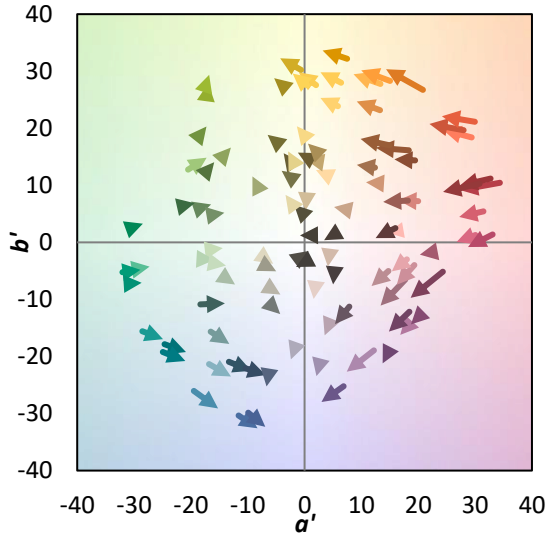


Color Vector Graphics







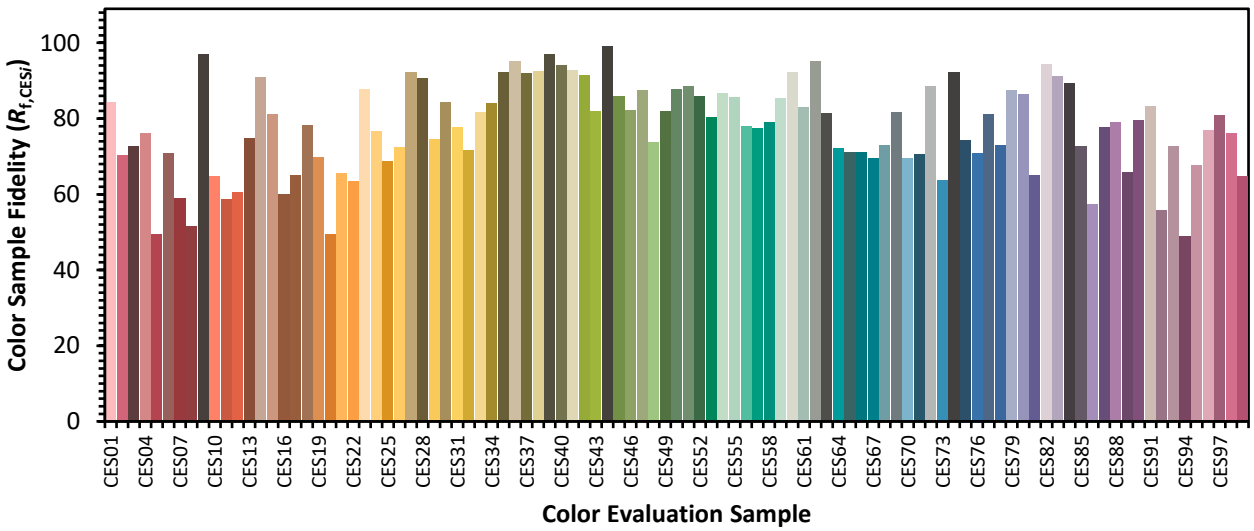


REPORT NUMBER: SP1-2501-332-3

TM-30-18

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

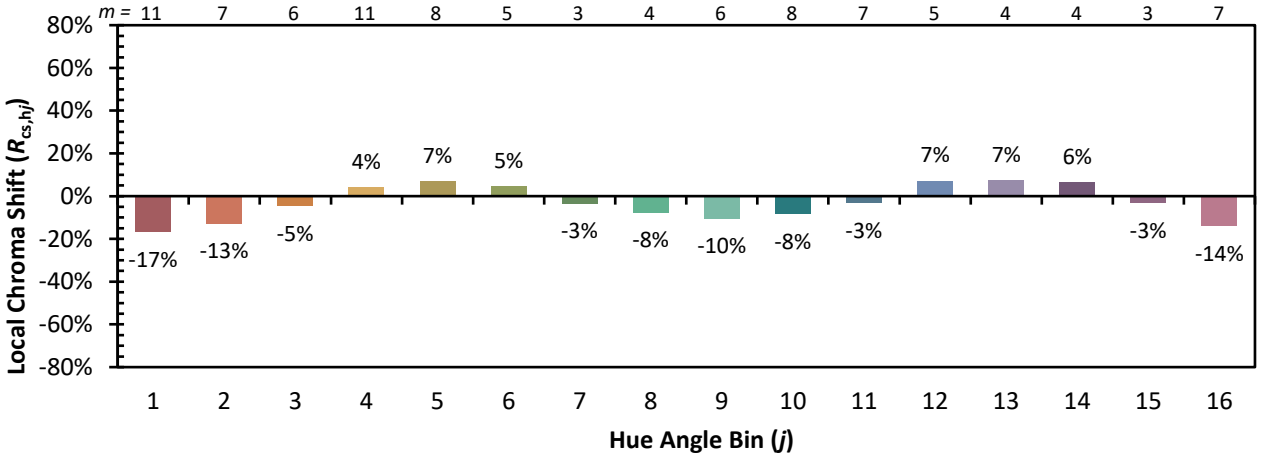
CES01 = 86	CES26 = 72	CES51 = 88	CES76 = 71
CES02 = 63	CES27 = 92	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 91	CES53 = 80	CES78 = 73
CES04 = 71	CES29 = 75	CES54 = 87	CES79 = 88
CES05 = 50	CES30 = 84	CES55 = 86	CES80 = 87
CES06 = 52	CES31 = 78	CES56 = 78	CES81 = 65
CES07 = 42	CES32 = 72	CES57 = 77	CES82 = 94
CES08 = 41	CES33 = 82	CES58 = 79	CES83 = 91
CES09 = 29	CES34 = 84	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 92	CES60 = 92	CES85 = 73
CES11 = 60	CES36 = 95	CES61 = 83	CES86 = 57
CES12 = 66	CES37 = 92	CES62 = 95	CES87 = 78
CES13 = 44	CES38 = 93	CES63 = 82	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 72	CES89 = 66
CES15 = 72	CES40 = 94	CES65 = 71	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 71	CES91 = 83
CES17 = 51	CES42 = 92	CES67 = 69	CES92 = 56
CES18 = 57	CES43 = 82	CES68 = 73	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 82	CES94 = 49
CES20 = 67	CES45 = 86	CES70 = 70	CES95 = 68
CES21 = 87	CES46 = 82	CES71 = 71	CES96 = 77
CES22 = 80	CES47 = 88	CES72 = 89	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 64	CES98 = 76
CES24 = 91	CES49 = 82	CES74 = 92	CES99 = 65
CES25 = 73	CES50 = 88	CES75 = 74	

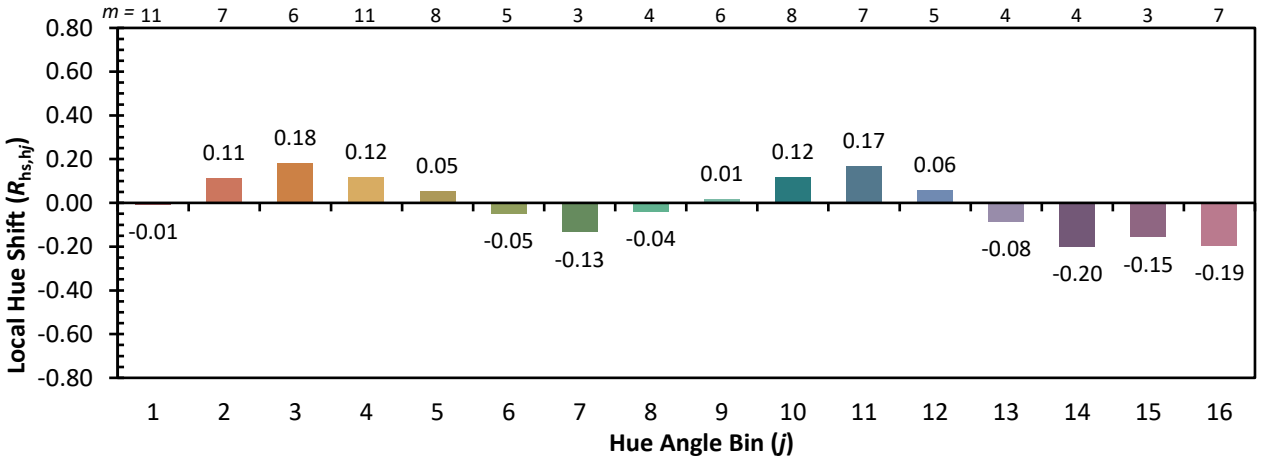


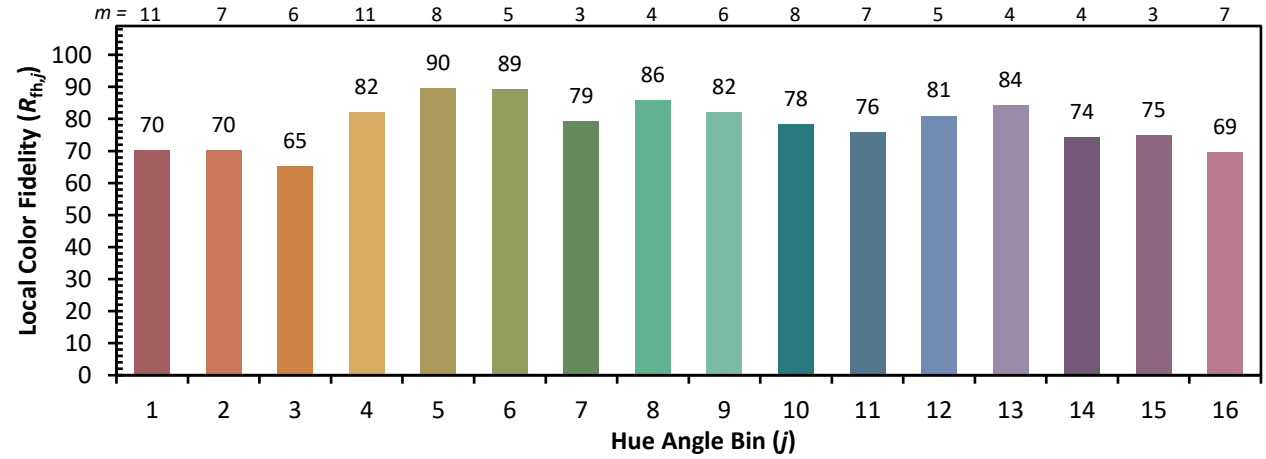
REPORT NUMBER: SP1-2501-332-3

TM-30-18

Color Rendition by Hue-Angle Bin



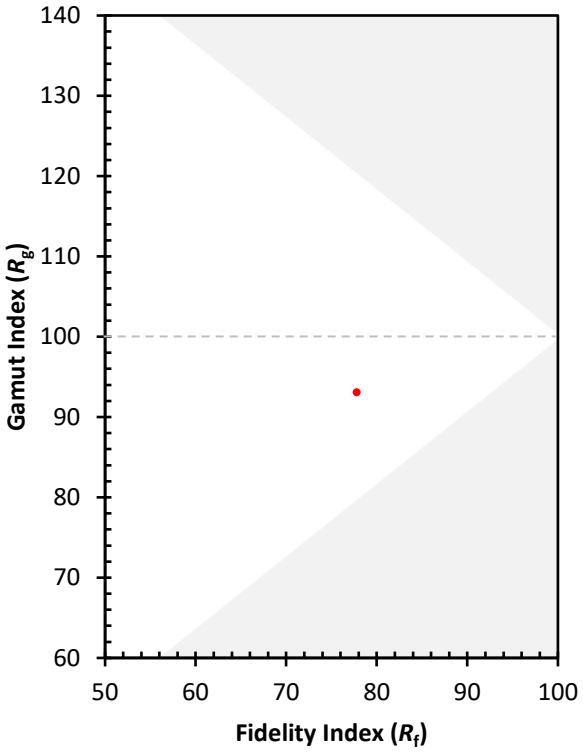


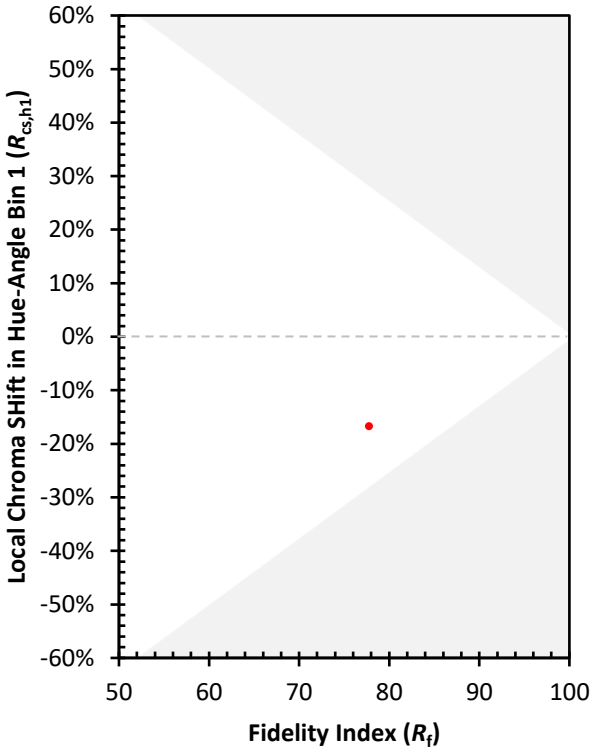


REPORT NUMBER: SP1-2501-332-3

TM-30-18

Measure Comparisons





(END OF REPORT)