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: P1224053

Luminaire Tested: **FFX-CLB-60-750-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:	P1224053
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	01/27/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	FFX-CLB-60-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8797.9 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

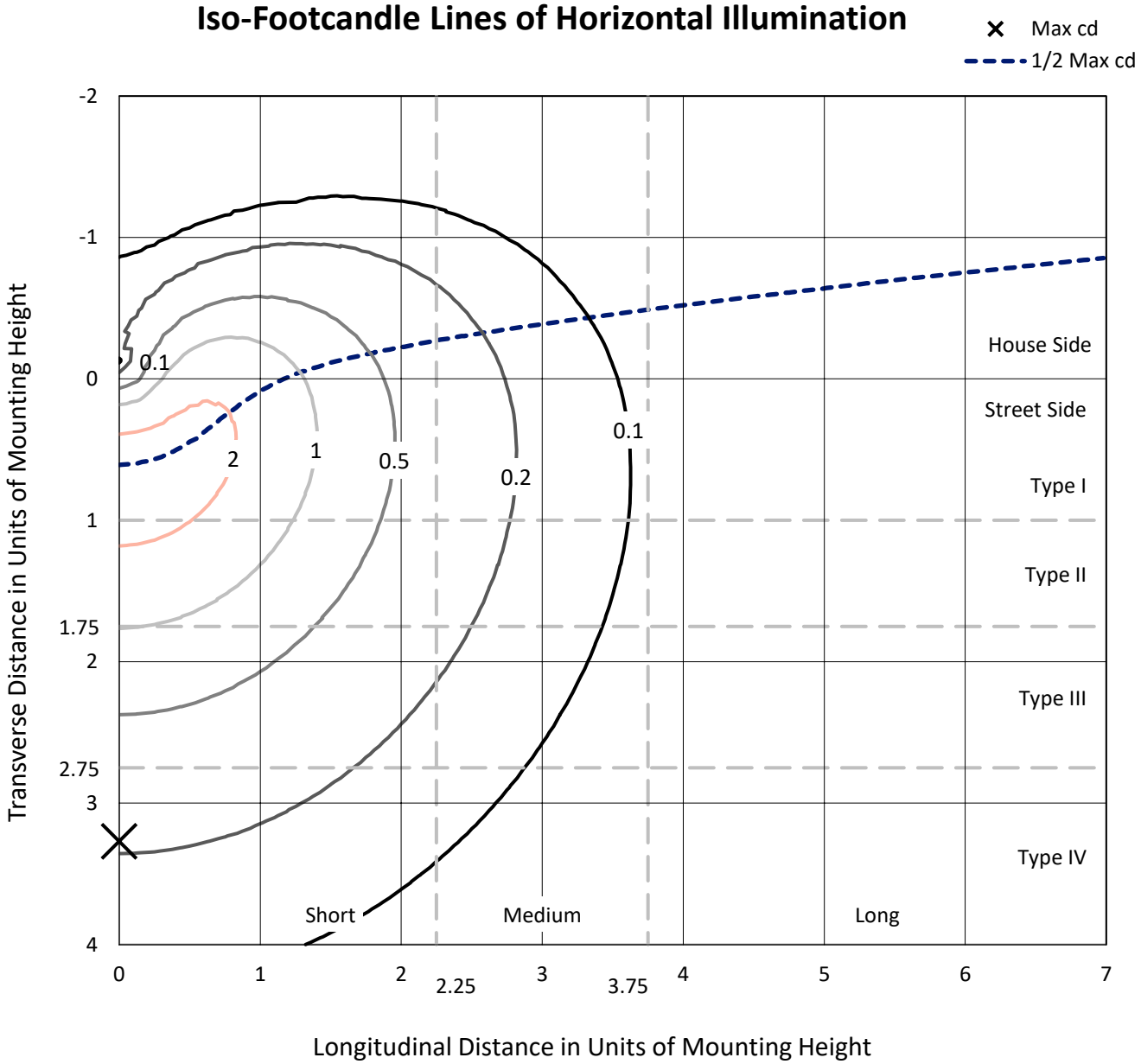


Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination



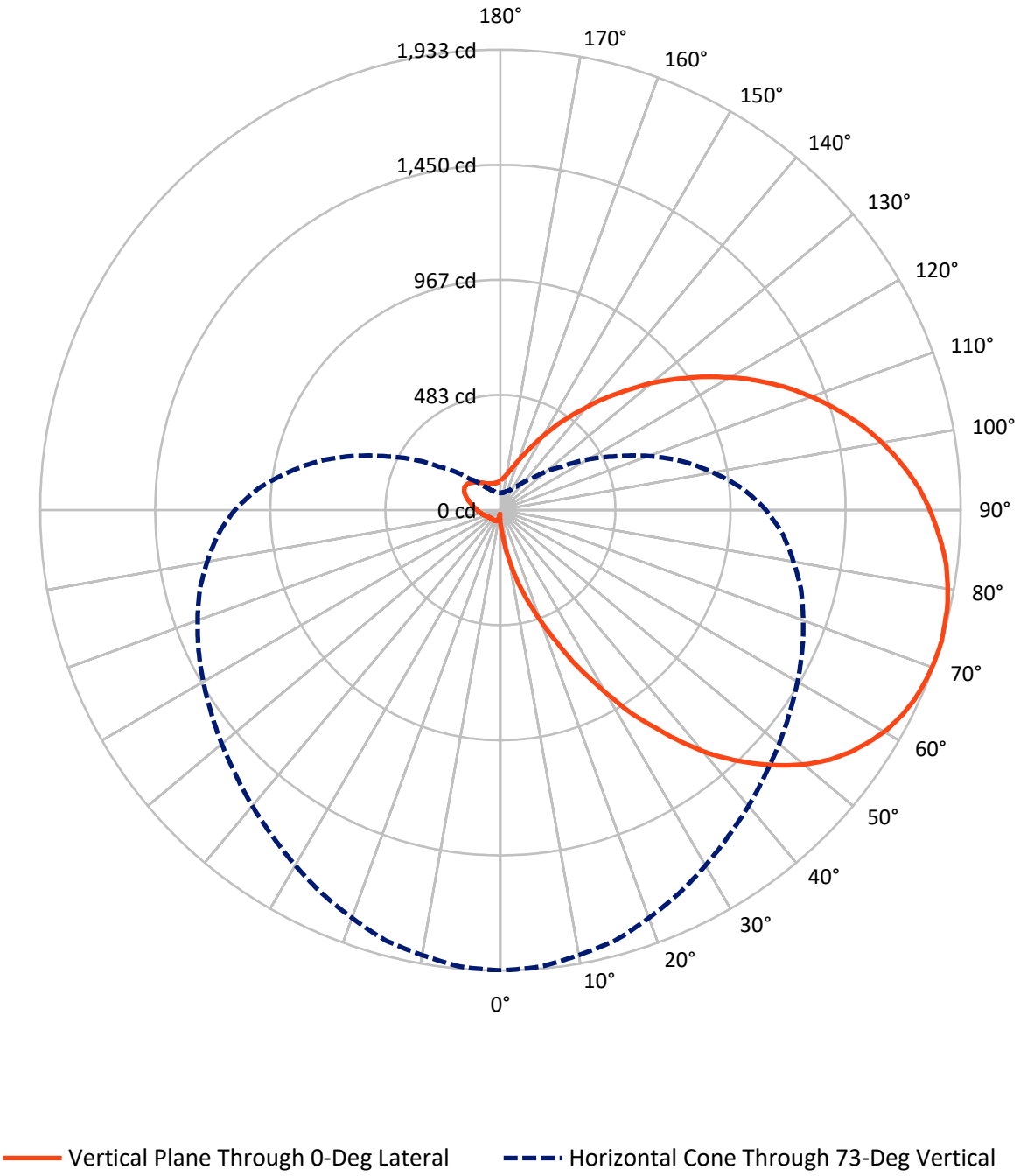
Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

Luminous Intensity Polar Plot



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

Scaled Data Report

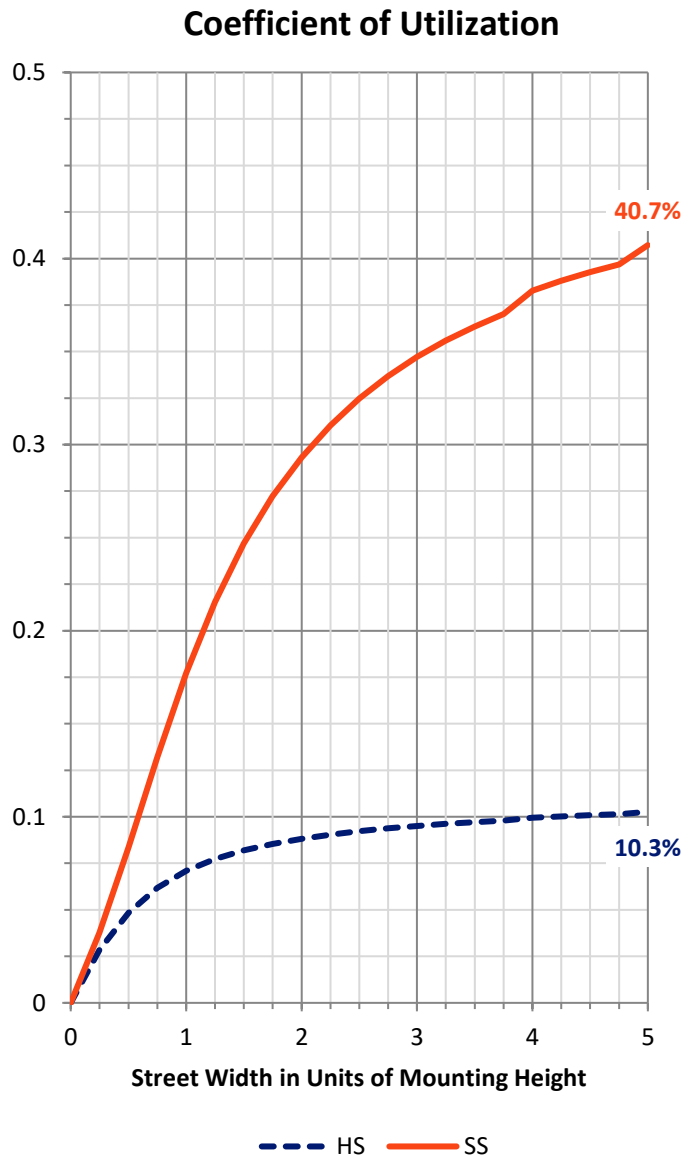
REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.5	957.6	1932.1
	% Fixture	11.1	10.9	22.0
Street Side	Lumens	4108.6	2757.2	6865.8
	% Fixture	46.7	31.3	78.0
Total	Lumens	5083.1	3714.8	8797.9
	% Fixture	57.8	42.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.1
10°-20°	62.4	0.7
20°-30°	188.3	2.1
30°-40°	392.3	4.5
40°-50°	621.8	7.1
50°-60°	816.8	9.3
60°-70°	951.7	10.8
70°-80°	1020.0	11.6
80°-90°	1020.8	11.6
90°-100°	957.3	10.9
100°-110°	842.1	9.6
110°-120°	695.4	7.9
120°-130°	523.4	5.9
130°-140°	345.4	3.9
140°-150°	198.1	2.3
150°-160°	98.2	1.1
160°-170°	42.9	0.5
170°-180°	12.0	0.1
0°-90°	5083.1	57.8
0°-180°	8797.9	100.0



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

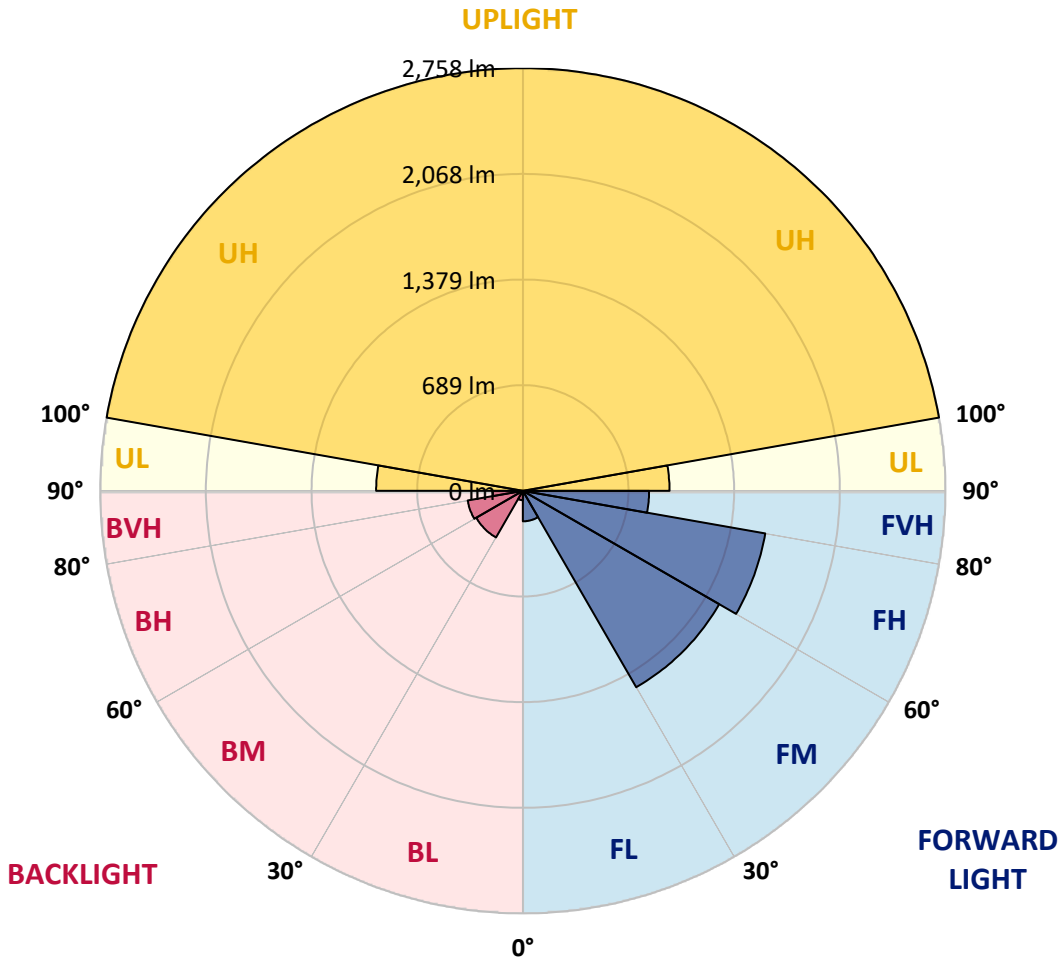
Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-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°)	198.9	2.3			
FM	(30°-60°)	1479.8	16.8			
FH	(60°-80°)	1606.2	18.3			G1/1800
FVH	(80°-90°)	823.8	9.4			G5
BL	(0°-30°)	60.8	0.7	B0/110		
BM	(30°-60°)	351.1	4.0	B1/1000		
BH	(60°-80°)	365.5	4.2	B1/500		G1/500
BVH	(80°-90°)	197.1	2.2			G2/225
UL	(90°-100°)	957.3	10.9		U4/1000	
UH	(100°-180°)	2757.5	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: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	79.4	80.0	79.4	80.6	77.6	77.6	75.2	72.8	69.8	66.1	63.7
5°	117.9	117.3	117.3	117.9	116.1	110.6	104.6	96.2	89.0	81.2	77.0
7.5°	169.6	167.2	164.8	164.2	158.1	150.3	141.9	132.3	122.1	111.2	103.4
10°	223.7	225.5	223.1	216.5	209.3	200.2	189.4	176.2	163.0	147.9	138.9
12.5°	293.4	288.6	282.6	276.0	268.8	260.4	242.9	227.9	209.3	190.6	178.6
15°	361.4	357.2	357.2	348.8	337.3	324.7	308.5	289.8	264.0	234.5	223.7
17.5°	431.1	431.7	425.7	416.1	405.9	389.6	372.2	345.8	319.3	288.6	270.0
20°	512.9	510.5	506.3	499.1	481.0	466.6	445.0	415.5	379.4	342.1	319.3
22.5°	597.7	598.9	598.9	587.5	570.6	550.8	526.1	492.5	449.8	401.7	374.0
25°	703.5	702.9	691.5	678.3	665.0	644.6	613.3	572.4	525.5	467.8	435.3
27.5°	799.7	799.1	796.7	784.7	764.9	738.4	701.7	657.2	603.7	534.6	496.1
30°	906.8	909.2	902.6	892.3	866.5	839.4	796.7	744.4	681.3	606.7	563.4
32.5°	1022.8	1018.0	1012.6	999.4	971.1	933.2	885.1	831.0	761.9	676.5	629.0
35°	1123.2	1132.3	1123.8	1103.4	1068.5	1028.2	975.3	914.6	839.4	748.0	693.9
37.5°	1236.3	1234.5	1221.9	1202.0	1168.3	1117.2	1061.3	991.0	906.8	811.8	751.6
40°	1341.5	1334.3	1327.1	1297.6	1254.9	1203.8	1134.7	1063.1	976.5	869.5	808.8
42.5°	1434.7	1434.1	1414.9	1385.4	1331.9	1275.4	1203.8	1123.8	1033.6	923.0	854.5
45°	1520.7	1518.9	1500.3	1456.4	1405.9	1337.9	1263.3	1180.4	1085.4	968.7	903.2
47.5°	1601.9	1597.1	1571.2	1526.7	1463.0	1391.4	1314.5	1227.3	1129.3	1009.6	941.0
50°	1675.8	1671.6	1641.6	1585.0	1517.1	1440.7	1356.5	1266.4	1170.7	1050.5	976.5
52.5°	1739.0	1731.8	1696.9	1636.2	1558.6	1478.0	1390.2	1300.0	1203.2	1079.3	1007.8
55°	1789.5	1781.7	1744.4	1676.4	1595.3	1508.1	1419.1	1329.5	1228.5	1105.2	1031.8
57.5°	1831.6	1825.6	1784.7	1710.1	1623.5	1533.9	1443.7	1352.3	1251.9	1129.3	1052.9
60°	1868.3	1861.0	1814.7	1737.8	1646.4	1553.8	1461.8	1370.4	1271.8	1147.9	1072.1
62.5°	1894.1	1888.7	1840.0	1757.6	1662.6	1568.8	1473.8	1385.4	1286.8	1164.7	1086.6
65°	1912.8	1906.1	1856.8	1769.6	1672.8	1576.0	1482.8	1392.0	1296.4	1175.0	1097.4
67.5°	1923.6	1918.8	1867.1	1778.1	1677.0	1579.6	1487.0	1398.6	1304.2	1183.4	1105.8
70°	1930.8	1923.6	1871.3	1779.9	1675.8	1579.0	1487.0	1399.2	1308.4	1189.4	1110.6
72.5°	1932.6	1924.8	1870.7	1776.9	1672.2	1573.0	1484.0	1399.8	1309.6	1192.4	1115.4
73°	1933.2	1924.8	1870.1	1775.7	1670.4	1572.4	1483.4	1398.6	1308.4	1191.8	1115.4
75°	1926.6	1921.2	1865.3	1768.4	1664.4	1566.4	1479.2	1395.6	1308.4	1192.4	1114.8
77.5°	1920.0	1911.6	1853.2	1758.2	1650.6	1555.6	1470.2	1389.6	1304.2	1191.2	1114.2
80°	1904.3	1895.9	1837.6	1739.0	1633.1	1539.9	1457.6	1380.0	1296.4	1184.6	1109.4
82.5°	1886.3	1876.7	1815.9	1716.7	1612.1	1520.1	1441.3	1367.4	1286.2	1176.8	1102.2
85°	1859.8	1852.6	1790.7	1689.7	1588.0	1499.7	1422.7	1352.3	1273.0	1164.7	1091.4
87.5°	1829.2	1823.2	1758.8	1659.0	1557.4	1473.2	1401.0	1332.5	1257.9	1151.5	1079.3
90°	1797.3	1790.1	1725.7	1624.1	1527.3	1444.3	1375.8	1311.4	1239.3	1135.3	1063.7
92.5°	1760.6	1752.2	1687.3	1588.7	1494.2	1414.9	1351.1	1288.0	1218.2	1116.6	1047.5
95°	1716.1	1708.3	1644.0	1545.4	1452.8	1380.6	1318.7	1260.3	1193.6	1094.4	1027.6
97.5°	1668.6	1661.4	1596.5	1502.1	1412.5	1341.5	1283.8	1230.9	1167.1	1072.7	1005.4
100°	1617.5	1607.9	1543.6	1452.8	1364.4	1300.0	1248.3	1200.8	1138.3	1045.7	981.3
102.5°	1563.4	1554.4	1493.0	1404.0	1321.1	1258.5	1211.6	1165.3	1108.2	1021.0	957.9
105°	1502.1	1497.3	1435.3	1349.3	1271.8	1214.0	1170.1	1129.9	1075.7	991.0	933.2
107.5°	1441.3	1431.7	1374.0	1291.6	1218.8	1166.5	1128.7	1091.4	1042.1	960.9	906.2

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

Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	*1377.0*	1367.4	1315.7	1236.9	1169.5	1119.6	1084.8	1051.7	1007.2	931.4	879.7
112.5°	*1312.0*	1301.2	1250.1	1178.0	1112.4	1071.5	1039.7	1012.0	971.7	902.0	850.8
115°	*1241.7*	1237.5	1187.6	1118.4	1060.7	1022.2	994.6	969.3	931.4	870.1	823.2
117.5°	*1172.5*	1164.7	1121.4	1057.7	1004.2	968.1	947.1	924.8	890.5	832.8	791.9
120°	*1098.0*	1096.2	1054.7	995.2	945.3	917.0	896.5	877.9	847.8	795.5	757.0
122.5°	*1027.6*	1024.0	984.3	930.8	889.3	862.9	846.6	830.4	804.5	755.8	719.8
125°	*953.1*	948.9	917.6	873.7	834.0	808.8	793.1	780.5	757.0	713.1	679.5
127.5°	*883.9*	879.7	851.4	809.4	778.1	755.2	740.8	729.4	705.9	668.1	638.6
130°	*815.4*	808.2	783.5	749.8	718.6	702.9	688.5	680.1	656.0	620.5	594.7
132.5°	*742.0*	738.4	721.0	689.7	664.4	648.2	635.6	624.8	606.1	573.6	550.2
135°	*677.1*	673.5	657.2	630.8	613.3	598.3	586.9	575.4	556.2	524.9	505.1
137.5°	*615.1*	612.1	597.7	579.7	557.4	548.4	540.6	526.7	509.9	481.6	463.6
140°	*550.2*	551.4	540.0	523.7	509.9	499.1	491.3	479.8	463.0	439.0	420.9
142.5°	*496.7*	498.5	484.7	473.2	460.6	452.2	444.4	434.7	418.5	396.9	383.0
145°	*446.2*	442.0	436.5	425.7	413.7	408.3	400.5	392.1	379.4	357.8	346.4
147.5°	*395.1*	393.9	388.4	381.2	371.6	363.2	357.2	352.4	339.7	321.7	311.5
150°	*348.8*	347.6	344.5	339.1	330.7	325.3	320.5	313.9	301.9	288.0	279.0
152.5°	*307.9*	307.9	306.1	298.8	295.2	289.2	283.2	279.6	267.6	256.2	248.3
155°	*272.4*	272.4	270.0	266.4	259.8	256.2	252.5	247.1	238.7	229.7	222.5
157.5°	*241.7*	242.3	239.3	236.3	231.5	228.5	224.9	219.5	214.1	205.6	200.2
160°	*214.7*	215.3	214.1	211.7	206.8	203.8	200.8	196.6	191.8	185.2	180.4
162.5°	*193.0*	192.4	191.2	188.8	185.8	184.0	180.4	177.4	173.2	168.4	164.2
165°	*176.2*	174.4	173.8	172.0	169.0	167.2	164.2	161.8	158.7	153.9	152.1
167.5°	*161.1*	161.1	159.9	158.7	156.3	153.9	151.5	149.7	147.3	144.3	141.9
170°	*149.1*	149.1	147.9	146.7	144.3	143.1	141.3	139.5	137.7	135.3	134.1
172.5°	*139.5*	139.5	138.9	137.1	135.9	134.1	133.5	131.7	129.9	128.7	127.5
175°	*132.3*	132.3	131.1	129.9	128.7	127.5	126.3	125.7	125.1	123.9	123.3
177.5°	*126.9*	126.3	125.7	124.5	123.3	122.7	122.1	121.5	121.5	120.9	120.3
180°	*119.7*	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7

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

Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	61.3	55.9	49.9	44.5	41.5	37.3	34.9	33.7	34.9	33.1
5°	72.8	63.1	53.5	46.3	38.5	32.5	27.1	21.6	18.0	17.4
7.5°	96.8	86.0	72.8	60.7	49.9	40.3	31.9	25.3	20.4	19.8
10°	128.1	111.8	95.0	78.2	62.5	49.9	39.7	32.5	30.1	29.5
12.5°	167.2	143.7	120.3	98.0	78.8	61.9	50.5	42.7	39.1	38.5
15°	208.1	178.6	148.5	119.7	93.8	73.4	58.9	50.5	46.3	45.7
17.5°	251.9	213.5	172.6	138.9	108.2	83.6	65.5	54.1	49.3	48.1
20°	296.4	248.3	201.4	157.5	120.3	90.2	69.2	55.9	49.9	48.7
22.5°	346.4	288.6	230.3	175.6	131.1	96.8	72.2	57.1	50.5	49.3
25°	402.9	329.5	260.4	196.6	143.1	102.8	75.2	58.9	51.1	49.9
27.5°	460.6	375.2	291.0	215.3	153.3	107.0	77.6	59.5	51.7	50.5
30°	518.9	420.9	322.3	233.3	162.4	111.8	78.8	60.1	51.7	51.1
32.5°	579.7	463.6	352.4	250.1	170.2	114.8	80.0	60.7	52.3	51.1
35°	634.4	508.7	380.6	266.4	177.4	117.3	80.6	60.7	52.3	51.1
37.5°	686.7	547.2	406.5	279.6	182.8	119.1	81.2	60.7	52.3	51.1
40°	741.4	588.1	429.9	291.6	187.0	120.3	81.2	60.7	52.3	51.7
42.5°	785.9	622.4	449.8	300.1	190.0	120.3	81.2	60.7	52.9	51.7
45°	826.2	650.6	469.0	307.9	191.8	120.3	80.6	61.3	52.9	52.3
47.5°	861.1	678.9	483.4	313.3	192.4	120.3	80.6	61.3	53.5	52.9
50°	893.5	701.7	496.1	317.5	193.0	119.7	80.6	61.9	54.1	52.9
52.5°	921.2	720.4	506.3	319.9	191.8	118.5	80.6	62.5	55.3	54.1
55°	944.7	737.8	513.5	321.1	190.6	117.9	80.6	63.1	55.9	55.3
57.5°	963.9	751.6	520.1	321.7	189.4	117.3	81.2	64.3	57.7	57.1
60°	981.3	763.1	524.9	321.7	188.2	116.7	81.8	65.5	58.9	58.3
62.5°	995.2	772.1	528.5	321.1	187.6	116.7	83.0	67.3	60.7	60.1
65°	1004.8	778.7	530.4	319.9	186.4	117.3	84.2	69.2	63.1	62.5
67.5°	1013.8	784.7	531.6	319.3	185.8	117.9	86.0	71.6	65.5	64.9
70°	1019.2	788.3	532.2	318.7	185.2	119.1	87.8	74.0	68.5	67.9
72.5°	1021.6	790.7	532.8	317.5	185.8	120.3	90.2	76.4	71.6	71.0
73°	*1022.2*	*790.7*	*532.2*	*317.5*	*185.8*	*120.9*	*90.8*	*77.6*	*72.2*	*71.6*
75°	1023.4	790.7	531.6	316.9	186.4	122.1	92.6	80.0	74.6	74.6
77.5°	1021.6	789.5	530.4	316.3	187.0	124.5	95.6	83.0	78.2	77.6
80°	1018.0	786.5	528.5	316.3	188.2	126.9	99.2	86.6	81.8	81.2
82.5°	1010.2	781.1	526.1	315.7	190.0	129.9	102.8	90.2	86.0	85.4
85°	1002.4	774.5	522.5	315.7	192.4	133.5	106.4	94.4	90.2	89.6
87.5°	990.4	766.7	518.9	315.1	194.8	136.5	110.0	98.6	93.8	93.8
90°	976.5	758.2	515.3	315.7	197.2	140.7	114.8	103.4	98.6	98.0
92.5°	962.7	748.6	511.1	316.9	201.4	144.9	119.7	108.2	103.4	102.2
95°	944.1	735.4	506.3	317.5	205.0	149.7	124.5	113.0	108.2	108.2
97.5°	924.8	723.4	500.9	319.3	209.9	155.7	131.1	119.1	114.2	114.2
100°	904.4	710.7	497.3	321.1	214.7	162.4	137.1	125.1	120.3	120.3
102.5°	882.7	696.9	493.7	324.7	221.9	169.0	144.3	132.3	126.9	126.9
105°	860.5	683.7	490.1	328.9	229.1	177.4	152.1	140.1	134.7	134.7
107.5°	838.8	671.1	487.1	334.3	236.9	185.8	159.9	147.9	142.5	141.3

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

Scaled Data Report

REPORT NUMBER: P1224053
CATALOG NUMBER: FFX-CLB-60-750-U-VM8-T4-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	816.0	657.8	484.7	339.7	245.9	195.4	169.6	155.7	149.7	149.7
112.5°	791.3	644.0	482.8	345.1	255.6	205.0	178.0	164.2	158.1	156.9
115°	765.5	630.2	479.2	351.2	264.0	214.7	187.0	171.4	164.8	164.2
117.5°	740.2	613.9	475.0	355.4	271.8	222.5	194.2	178.6	171.4	170.8
120°	710.7	595.9	467.8	356.6	277.8	228.5	200.2	183.4	176.2	175.0
122.5°	678.3	572.4	457.6	355.4	280.8	232.7	203.8	187.0	178.6	178.0
125°	641.6	546.6	444.4	351.2	281.4	234.5	205.0	187.6	179.8	178.6
127.5°	603.1	520.7	426.9	342.7	277.8	233.3	203.8	186.4	178.0	177.4
130°	563.4	490.1	406.5	331.9	271.8	229.1	200.8	183.4	175.0	174.4
132.5°	523.7	457.6	384.2	317.5	263.4	222.5	195.4	178.6	170.8	169.6
135°	481.0	425.7	361.4	302.5	251.9	215.3	188.8	172.6	164.8	164.2
137.5°	442.0	392.7	337.9	285.6	241.1	205.6	181.6	166.6	159.9	158.7
140°	403.5	360.8	312.7	267.6	227.3	196.0	173.2	159.9	153.3	152.7
142.5°	368.0	331.3	290.4	250.1	214.7	186.4	166.0	153.3	147.9	146.7
145°	331.3	300.7	267.0	232.1	200.8	176.2	158.1	146.7	141.9	140.7
147.5°	299.5	272.4	243.5	214.1	188.2	166.0	150.3	140.7	136.5	135.9
150°	269.4	246.5	221.3	197.2	174.4	156.3	143.1	134.7	131.1	130.5
152.5°	242.3	222.5	202.0	181.6	162.4	147.9	136.5	129.3	126.3	126.3
155°	217.1	200.8	184.6	167.8	152.7	140.7	131.7	125.7	123.3	122.7
157.5°	195.4	182.8	169.6	155.7	144.3	134.1	126.9	122.7	120.3	120.3
160°	176.8	167.2	156.3	146.1	137.1	128.7	123.3	119.7	117.9	117.9
162.5°	161.8	153.9	145.5	137.7	129.9	124.5	120.3	117.9	116.7	116.7
165°	149.1	143.7	137.7	131.1	125.7	121.5	118.5	116.7	116.1	116.1
167.5°	140.1	135.3	130.5	126.3	122.7	119.1	117.3	116.1	116.1	115.5
170°	132.3	129.3	125.1	122.1	119.1	117.3	116.1	115.5	115.5	114.8
172.5°	126.3	123.9	121.5	119.1	117.3	116.1	115.5	115.5	115.5	115.5
175°	122.7	120.9	119.1	117.9	116.7	115.5	115.5	116.1	116.1	116.1
177.5°	119.7	119.1	117.9	117.3	116.7	116.7	116.7	117.3	117.9	117.9
180°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7

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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-5

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

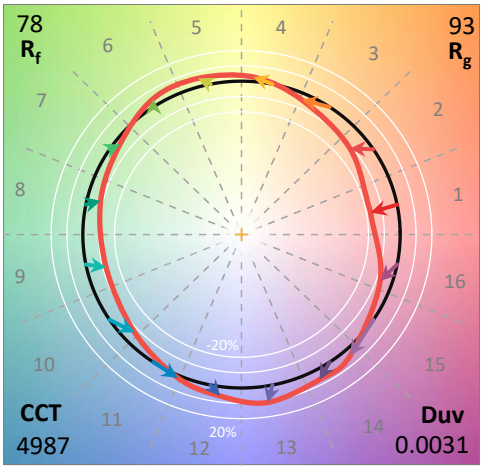
Test Information

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

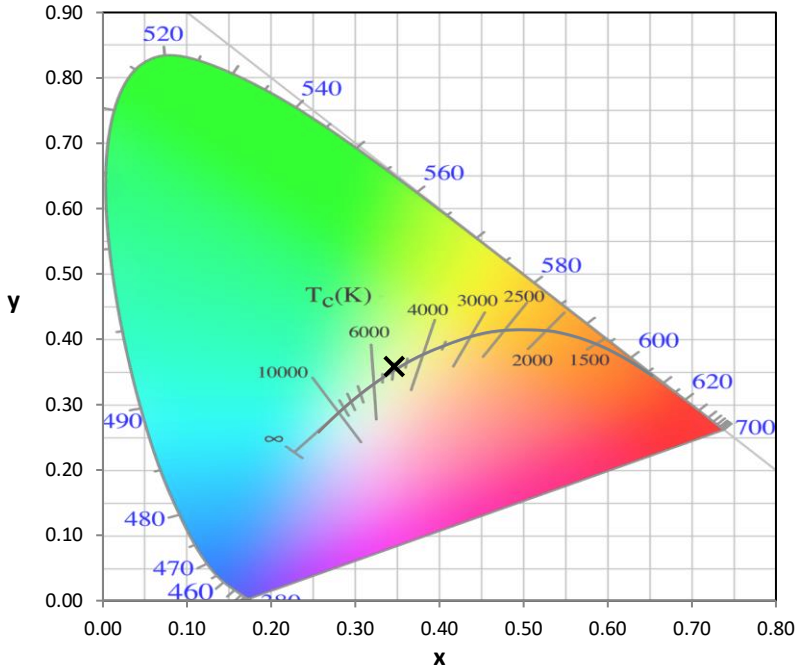
Stabilization Time:	67M
Operation Time:	2H 7M
Sphere Temperature (°C):	24.9

REPORT NUMBER: SP1-2501-332-5

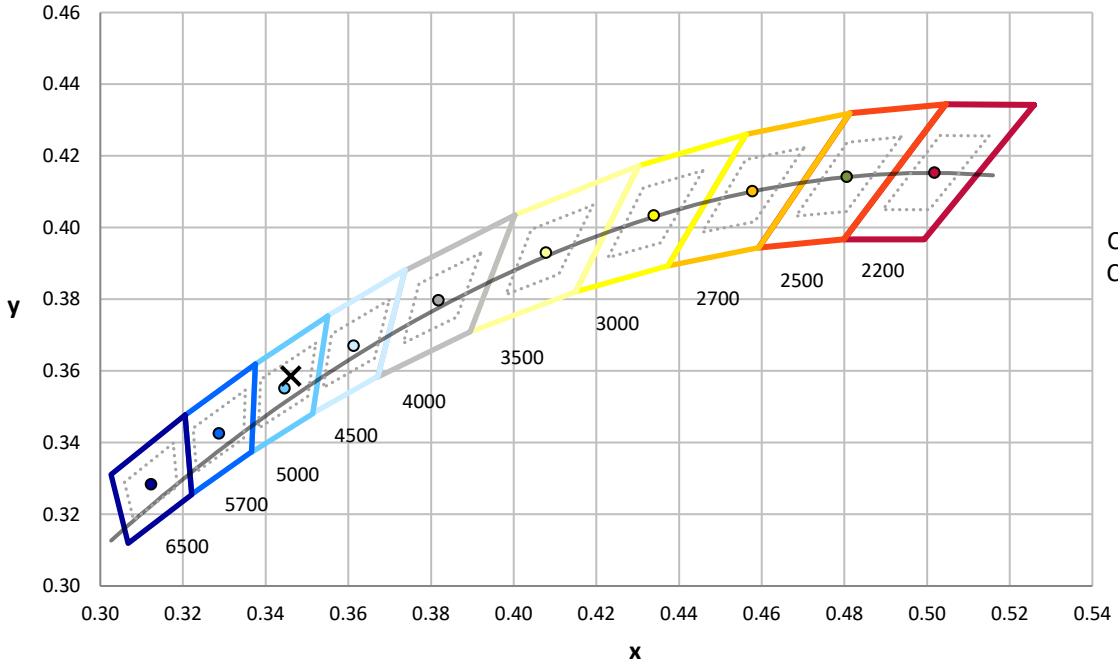
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

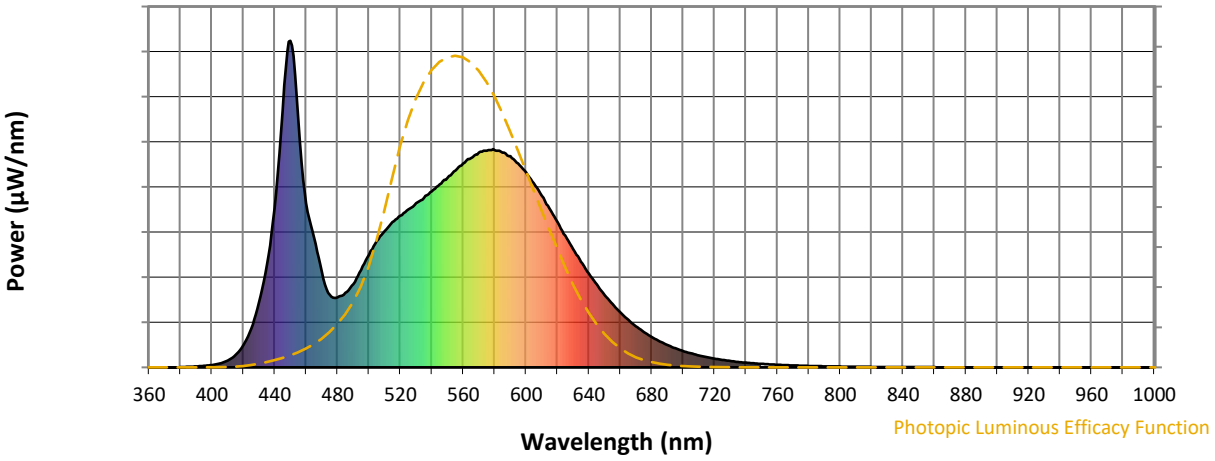


CCT = 4987K
CIE x = 0.3461
CIE y = 0.3586
Duv = 0.0031

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2501-332-5

Photopic Flux vs. Wavelength

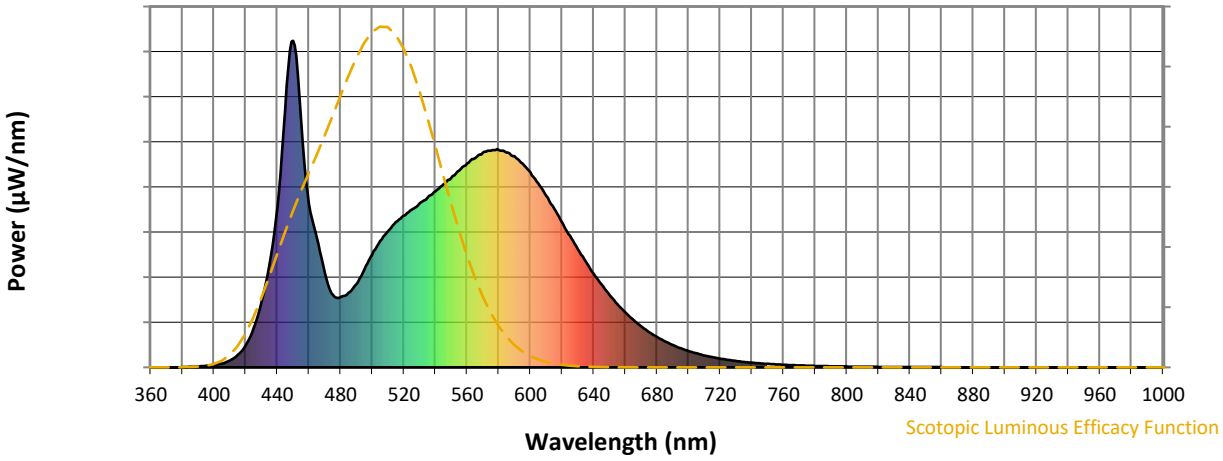


Photopic Lumens: NR

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

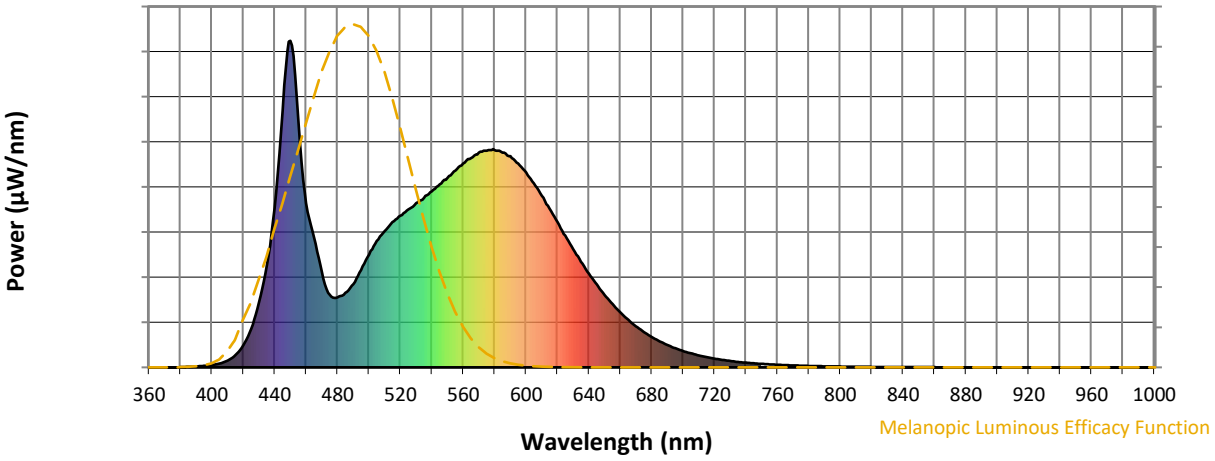


Scotopic Lumens: NR **S/P: 1.87**

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			

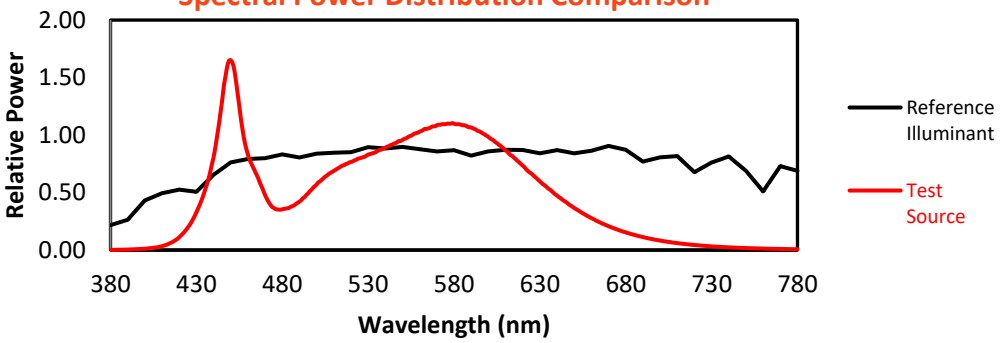
REPORT NUMBER: SP1-2501-332-5

TM-30-18

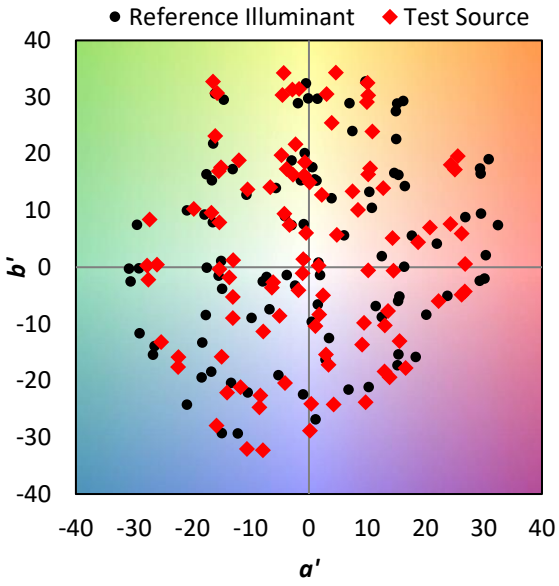
Summary

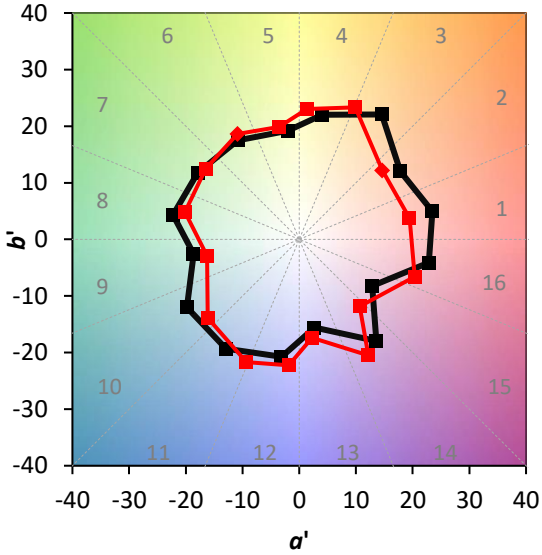
R_f = 78.3
R_g = 93.4
CIE R_a = 75.8
R_9 = -30.4

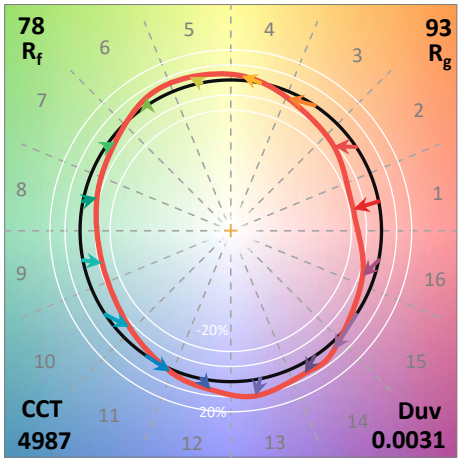
Spectral Power Distribution Comparison

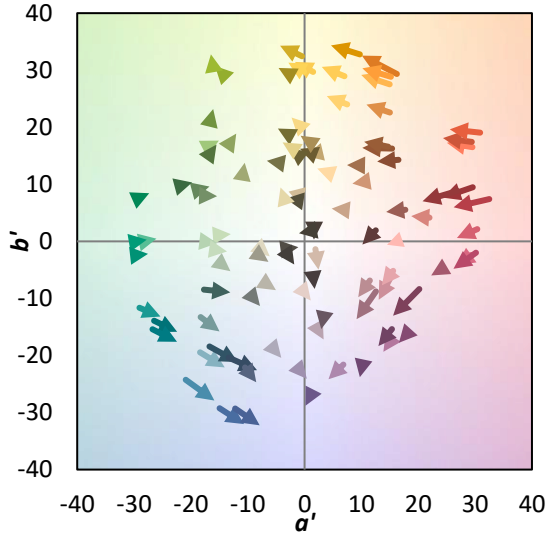


Color Vector Graphics







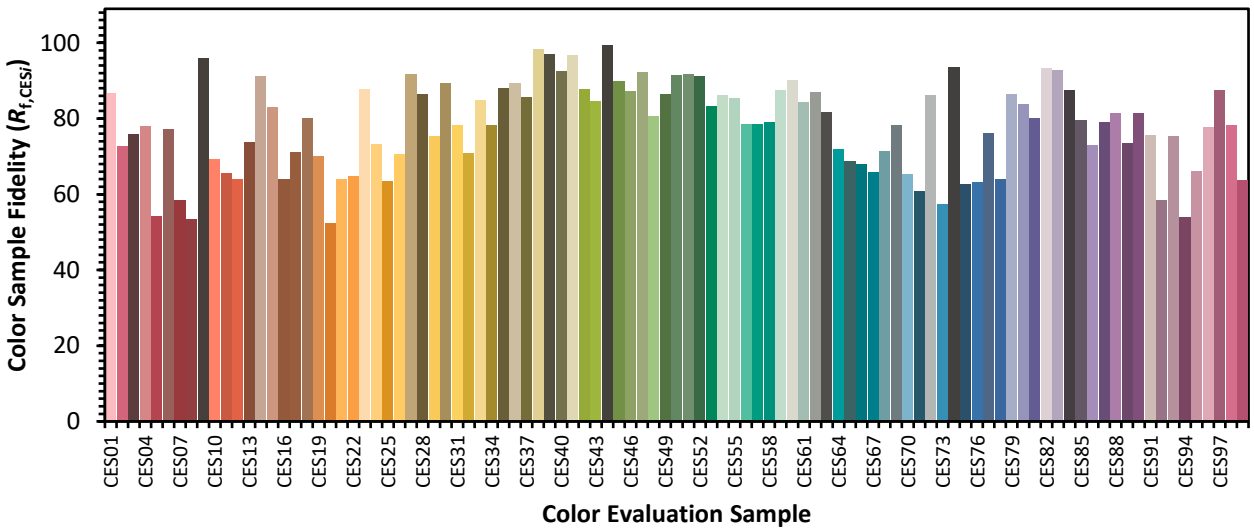


REPORT NUMBER: SP1-2501-332-5

TM-30-18

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

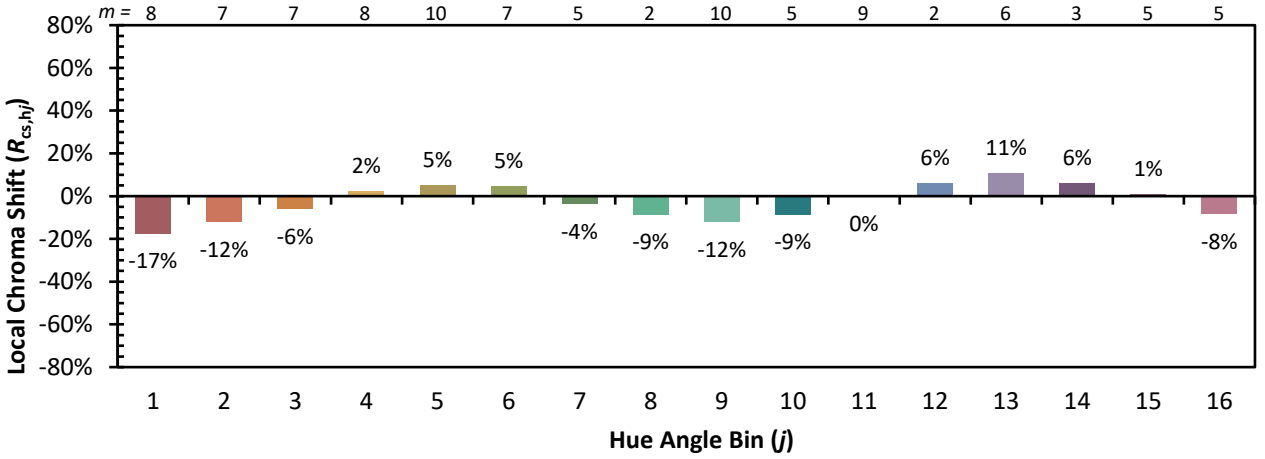
CES01 = 85	CES26 = 71	CES51 = 92	CES76 = 63
CES02 = 60	CES27 = 92	CES52 = 91	CES77 = 76
CES03 = 30	CES28 = 86	CES53 = 83	CES78 = 64
CES04 = 69	CES29 = 75	CES54 = 86	CES79 = 86
CES05 = 46	CES30 = 89	CES55 = 85	CES80 = 84
CES06 = 50	CES31 = 78	CES56 = 79	CES81 = 80
CES07 = 39	CES32 = 71	CES57 = 78	CES82 = 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
CES23 = 91	CES48 = 81	CES73 = 57	CES98 = 78
CES24 = 90	CES49 = 86	CES74 = 93	CES99 = 64
CES25 = 71	CES50 = 91	CES75 = 63	

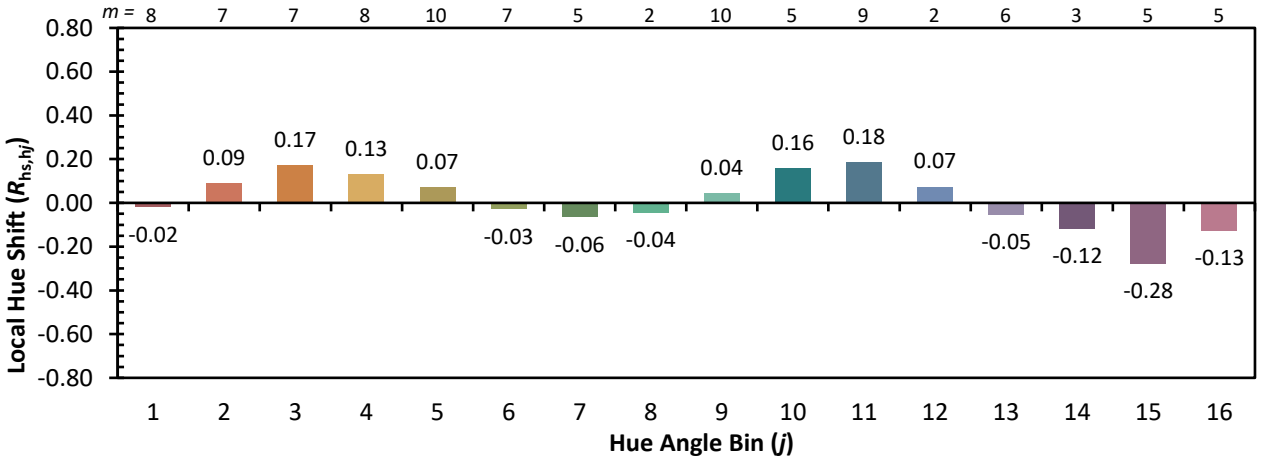


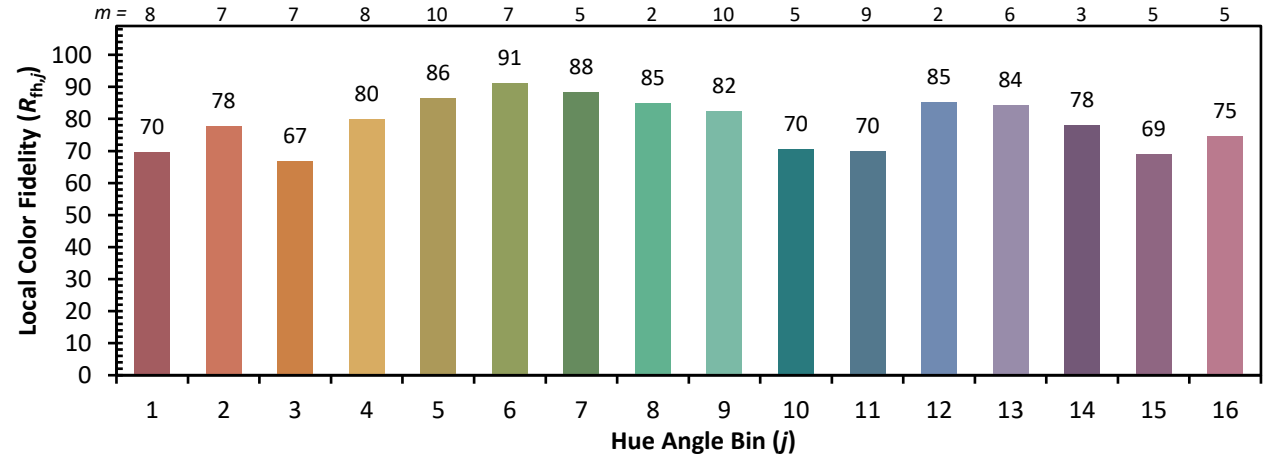
REPORT NUMBER: SP1-2501-332-5

TM-30-18

Color Rendition by Hue-Angle Bin



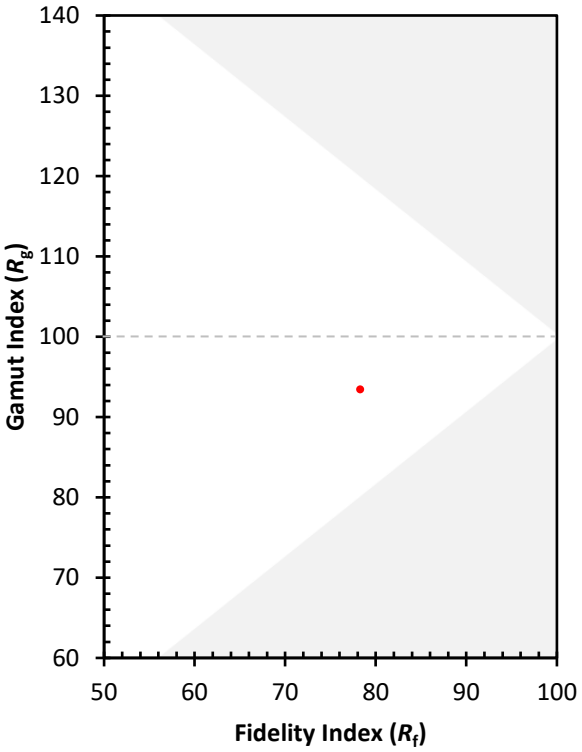


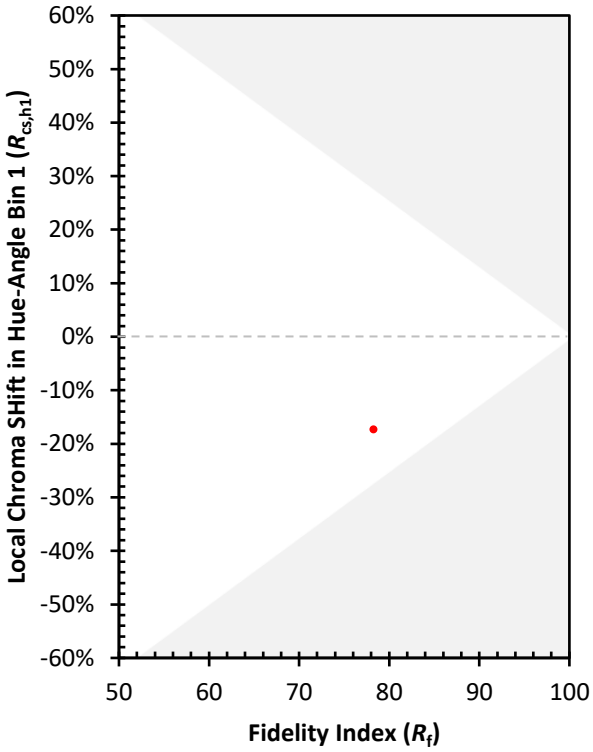


REPORT NUMBER: SP1-2501-332-5

TM-30-18

Measure Comparisons





(END OF REPORT)