

Signify Classified - Internal
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: P856218

Luminaire Tested: **FFX-CLB-100-740-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856218
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-100-740-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

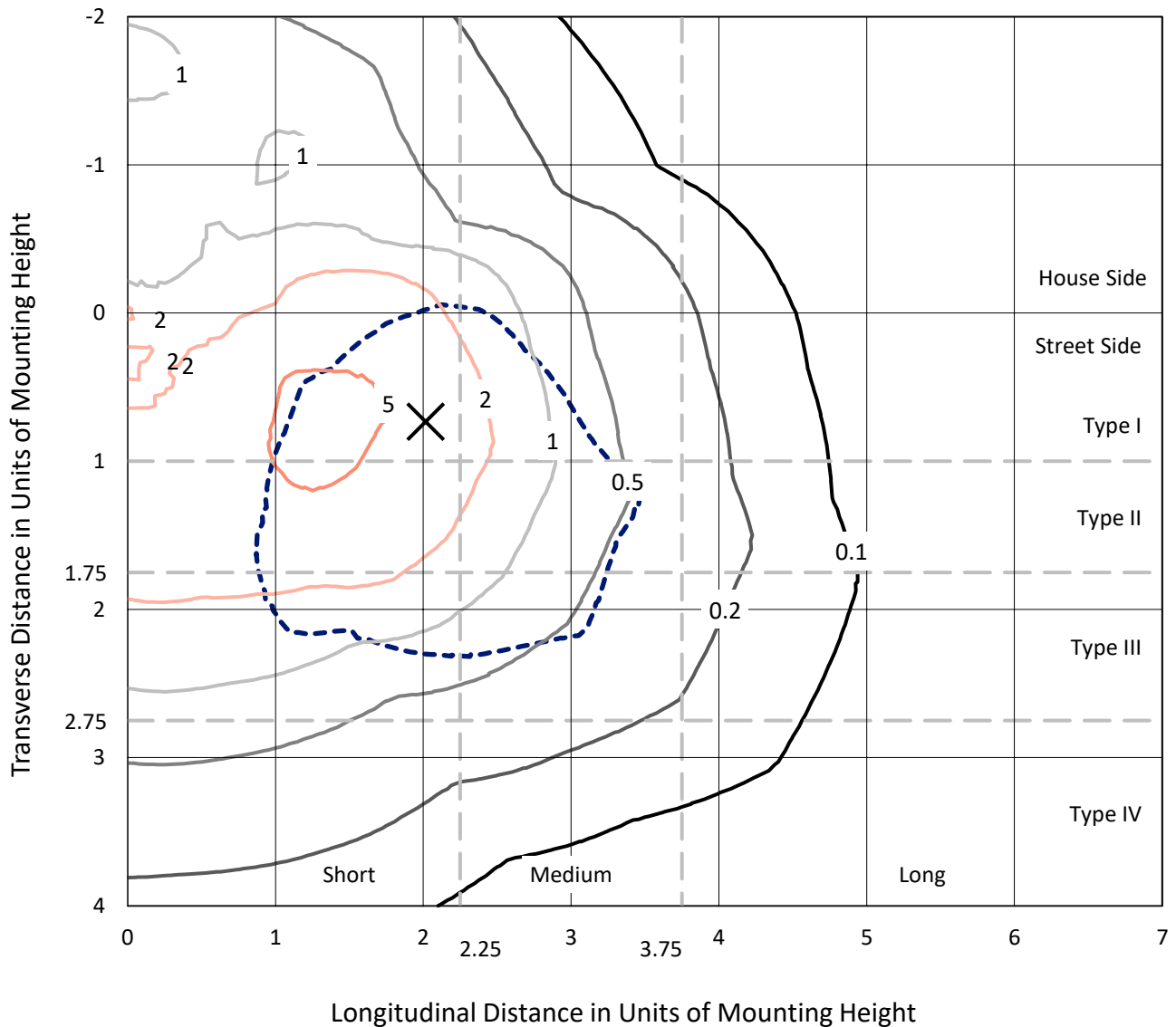
Lumens per Lamp: N/A
Luminaire Lumens: 15126 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B3 - U5 - G4

Input Watts (W): 96.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

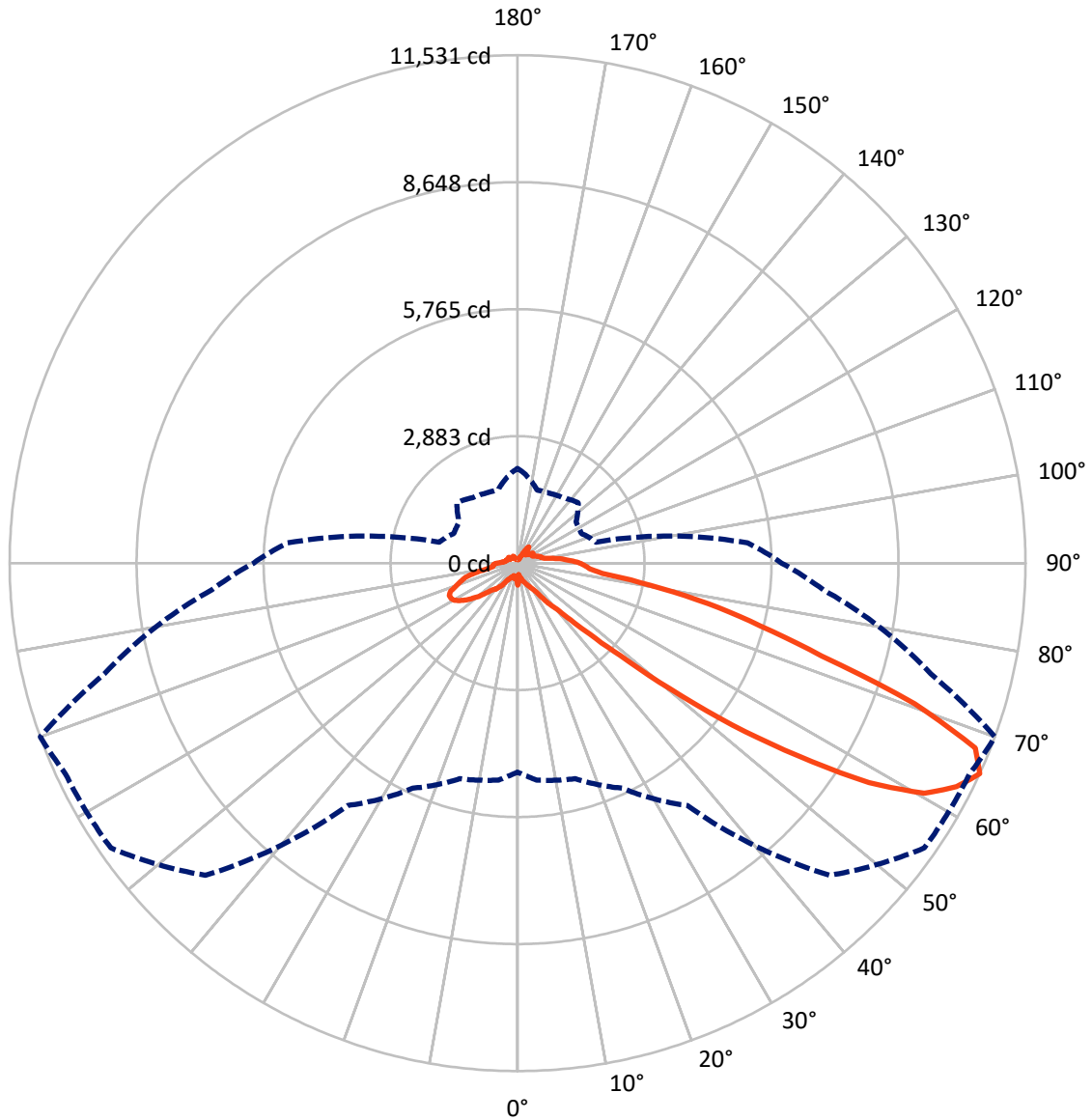
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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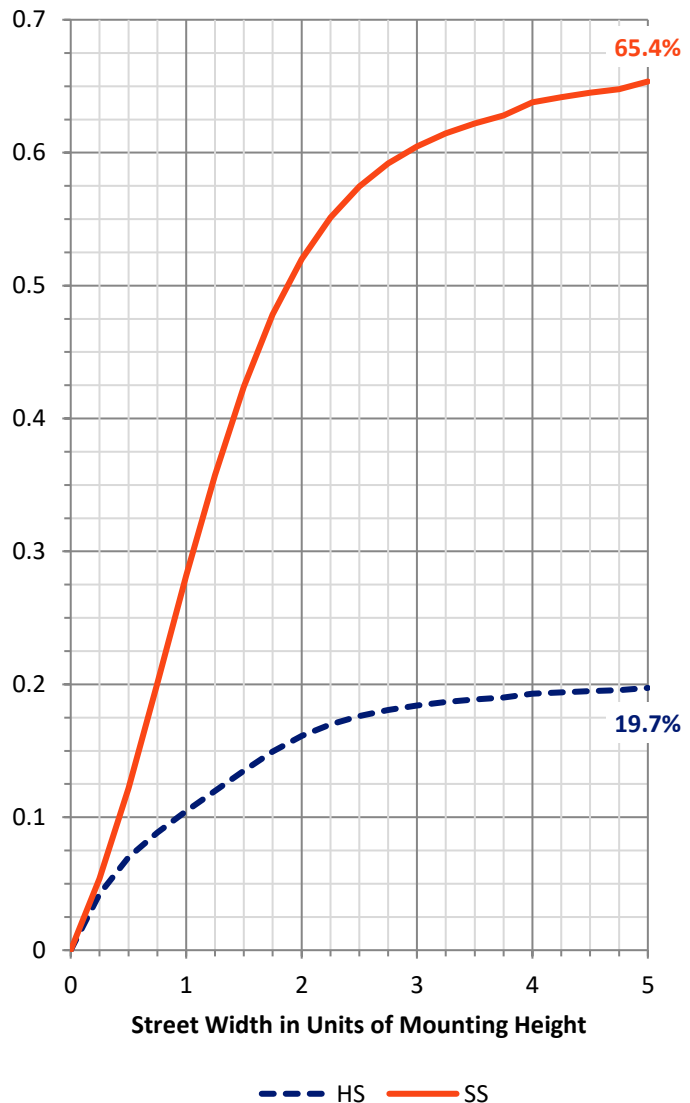
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3102.4	581.2	3683.5
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	10230.0	1212.5	11442.5
	% Fixture	67.6	8.0	75.6
Total	Lumens	13332.3	1793.7	15126.0
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.2
10°-20°	101.2	0.7
20°-30°	204.2	1.3
30°-40°	432.0	2.9
40°-50°	1007.3	6.7
50°-60°	3001.9	19.8
60°-70°	4810.2	31.8
70°-80°	2763.3	18.3
80°-90°	980.0	6.5
90°-100°	578.0	3.8
100°-110°	349.2	2.3
110°-120°	262.6	1.7
120°-130°	222.4	1.5
130°-140°	147.6	1.0
140°-150°	138.6	0.9
150°-160°	61.5	0.4
160°-170°	25.4	0.2
170°-180°	8.4	0.1
0°-90°	13332.3	88.1
0°-180°	15126.0	100.0

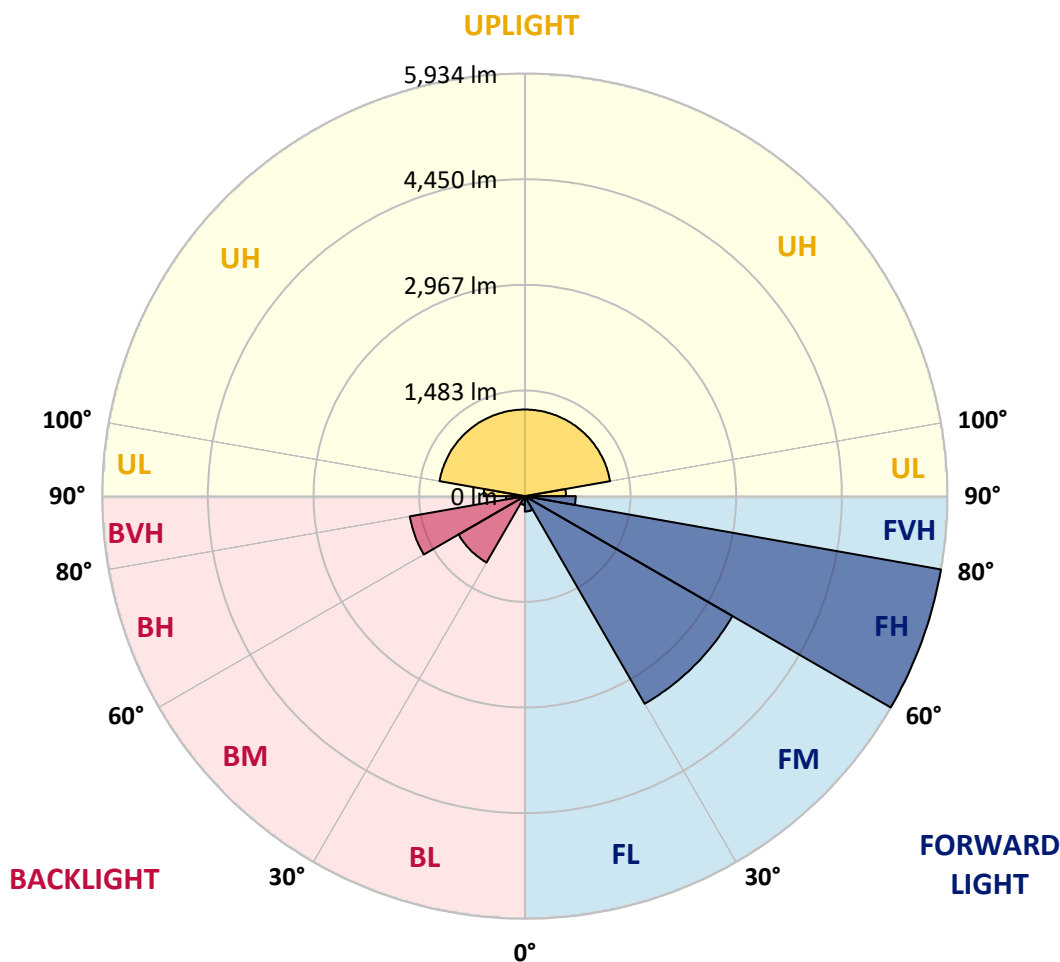


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.7	1.4			
FM (30°-60°)	3365.6	22.3			
FH (60°-80°)	5933.7	39.2			G3/7500
FVH (80°-90°)	713.9	4.7			G4/750
BL (0°-30°)	120.9	0.8	B1/500		
BM (30°-60°)	1075.6	7.1	B2/2500		
BH (60°-80°)	1639.8	10.8	B3/2500		G3/2500
BVH (80°-90°)	266.1	1.8			G3/500
UL (90°-100°)	578.0	3.8		U4/1000	
UH (100°-180°)	1215.7	8.0		U5	

BUG Rating: B3-U5-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	418.4	415.2	423.2	429.6	437.6	426.4	407.2	426.4	432.8	452.1	466.5
5°	355.9	357.5	365.5	383.1	399.2	395.9	346.3	282.1	262.9	254.9	256.5
7.5°	352.7	351.1	346.3	344.7	354.3	389.5	384.7	338.2	303.0	272.5	242.1
10°	371.9	376.7	381.5	381.5	375.1	352.7	351.1	347.9	335.0	320.6	301.4
12.5°	460.1	466.5	471.3	455.3	434.4	412.0	394.3	365.5	352.7	344.7	330.2
15°	556.3	562.7	554.6	524.2	487.3	445.6	429.6	431.2	413.6	392.7	362.3
17.5°	607.5	604.3	570.7	535.4	506.6	474.5	452.1	437.6	431.2	423.2	392.7
20°	575.5	567.5	546.6	532.2	529.0	511.4	496.9	484.1	476.1	458.5	421.6
22.5°	551.4	551.4	548.2	545.0	564.3	556.3	549.8	532.2	521.0	498.5	444.0
25°	581.9	581.9	583.5	578.7	604.3	604.3	604.3	585.1	570.7	538.6	472.9
27.5°	625.2	623.6	628.4	625.2	647.6	652.4	662.1	647.6	626.8	588.3	505.0
30°	671.7	671.7	676.5	679.7	702.1	713.4	724.6	718.2	692.5	646.0	559.5
32.5°	721.4	719.8	734.2	750.2	763.0	783.9	788.7	804.7	779.1	724.6	639.6
35°	793.5	798.3	836.8	870.4	907.3	920.1	942.6	1005.1	979.5	905.7	807.9
37.5°	1147.8	1123.7	1114.1	1075.6	1070.8	1146.2	1173.4	1232.7	1181.4	1082.0	933.0
40°	1216.7	1187.8	1175.0	1138.2	1151.0	1306.5	1279.2	1492.4	1367.4	1208.7	1112.5
42.5°	1146.2	1141.4	1292.0	1320.9	1304.9	1551.7	1498.8	1893.2	1760.1	1391.4	1284.0
45°	1383.4	1370.6	1434.7	1486.0	1526.1	1970.1	1938.1	2353.3	2295.5	1694.4	1588.6
47.5°	1561.4	1548.5	1622.3	1793.8	2027.8	2508.7	2696.3	3323.1	3127.5	2330.8	2090.4
50°	2093.6	2085.5	2284.3	2468.7	2855.0	3565.1	4079.7	4756.2	4469.3	3255.8	2813.3
52.5°	2596.9	2622.6	2855.0	3209.3	3618.0	4900.5	5634.7	6109.2	6106.0	4240.0	3611.6
55°	2957.6	3044.2	3318.3	3957.9	4525.4	6085.1	7075.8	7426.9	7721.8	5657.1	4398.7
57.5°	3658.1	3808.8	4071.7	4704.9	5437.5	7518.2	8932.1	8874.4	9405.0	7127.1	5254.7
60°	4377.9	4554.2	4642.4	5224.3	6186.1	8898.4	10208.1	10073.5	10607.3	8406.3	6155.7
62.5°	4602.3	4775.4	4862.0	5495.2	6726.3	9680.7	10796.4	10849.3	11181.2	9318.4	6689.5
65°	4743.4	4942.2	5067.2	5637.9	6715.1	10022.2	11272.5	11322.2	11530.6	9711.2	6965.2
67.5°	4717.7	4940.6	5100.9	5612.2	6343.2	9738.4	11153.9	10929.5	11208.4	9430.6	6675.0
70°	4208.0	4401.9	4562.2	4956.6	5294.8	8204.3	9650.3	9280.0	9568.5	7878.9	5511.2
72.5°	3438.5	3518.7	3658.1	3844.1	4012.4	6086.7	7361.1	7043.7	7210.4	5910.4	4129.4
75°	2824.5	2808.5	2933.6	3068.2	3015.3	4446.8	5823.8	5533.7	5689.2	4488.5	3294.2
77.5°	2093.6	2085.5	2266.7	2255.5	2175.3	3079.4	4616.7	4406.7	4427.6	3315.1	2467.1
80°	1258.4	1282.4	1458.8	1494.0	1399.4	1931.7	3295.8	3196.4	3047.4	2265.1	1729.7
82.5°	883.3	920.1	1013.1	1051.6	1005.1	1410.7	2183.3	2114.4	1938.1	1643.1	1218.3
85°	900.9	907.3	918.5	921.7	900.9	1266.4	1694.4	1655.9	1644.7	1377.0	1005.1
87.5°	900.9	915.3	925.0	923.3	886.5	1186.2	1563.0	1502.0	1516.5	1287.2	971.4
90°	807.9	833.6	832.0	836.8	806.3	1072.4	1417.1	1367.4	1386.6	1160.6	883.3
92.5°	660.4	678.1	695.7	729.4	684.5	912.1	1197.5	1151.0	1175.0	987.5	751.8
95°	614.0	630.0	641.2	658.8	614.0	811.1	1059.6	1003.5	1013.1	838.4	636.4
97.5°	496.9	506.6	519.4	522.6	490.5	623.6	806.3	758.2	764.6	650.8	500.1
100°	416.8	424.8	436.0	436.0	415.2	516.2	638.0	612.4	609.2	532.2	423.2
102.5°	394.3	397.6	415.2	412.0	391.1	476.1	577.1	561.1	562.7	493.7	397.6
105°	387.9	387.9	405.6	397.6	379.9	453.7	540.2	535.4	533.8	469.7	381.5
107.5°	381.5	381.5	399.2	391.1	376.7	428.0	508.2	492.1	490.5	447.2	360.7
110°	355.9	360.7	379.9	370.3	359.1	404.0	466.5	455.3	455.3	421.6	344.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	315.8	319.0	336.6	328.6	320.6	359.1	413.6	399.2	400.8	378.3	322.2
115°	295.0	299.8	317.4	306.2	299.8	335.0	383.1	373.5	376.7	355.9	304.6
117.5°	296.6	298.2	311.0	312.6	299.8	328.6	354.3	357.5	362.3	349.5	309.4
120°	360.7	352.7	359.1	351.1	344.7	378.3	408.8	412.0	410.4	386.3	307.8
122.5°	363.9	347.9	365.5	354.3	347.9	384.7	418.4	426.4	418.4	397.6	314.2
125°	290.1	295.0	296.6	299.8	306.2	346.3	363.9	365.5	367.1	360.7	304.6
127.5°	254.9	253.3	245.3	246.9	261.3	296.6	309.4	319.0	312.6	309.4	274.1
130°	243.7	246.9	245.3	245.3	253.3	280.5	290.1	304.6	299.8	293.4	250.1
132.5°	224.4	227.6	242.1	259.7	256.5	266.1	269.3	283.7	285.3	285.3	251.7
135°	213.2	216.4	227.6	250.1	243.7	248.5	246.9	259.7	261.3	262.9	237.2
137.5°	218.0	219.6	213.2	216.4	221.2	242.1	248.5	261.3	261.3	254.9	221.2
140°	229.2	229.2	214.8	210.0	219.6	251.7	264.5	285.3	282.1	270.9	229.2
142.5°	211.6	214.8	222.8	232.4	253.3	341.4	341.4	381.5	394.3	397.6	277.3
145°	275.7	277.3	280.5	285.3	325.4	447.2	407.2	436.0	447.2	458.5	333.4
147.5°	317.4	320.6	317.4	304.6	341.4	383.1	363.9	376.7	389.5	392.7	335.0
150°	248.5	245.3	243.7	242.1	282.1	295.0	278.9	277.3	286.9	295.0	259.7
152.5°	181.1	179.5	177.9	176.3	211.6	203.6	192.4	192.4	195.6	197.2	182.7
155°	160.3	158.7	155.5	157.1	179.5	171.5	161.9	158.7	161.9	160.3	152.3
157.5°	131.4	128.2	128.2	134.7	145.9	136.3	129.8	125.0	126.6	125.0	126.6
160°	109.0	107.4	109.0	117.0	123.4	115.4	109.0	105.8	105.8	109.0	115.4
162.5°	97.8	96.2	97.8	101.0	104.2	96.2	91.4	91.4	93.0	99.4	112.2
165°	85.0	85.0	86.6	88.2	89.8	85.0	83.4	83.4	86.6	96.2	110.6
167.5°	81.8	81.8	81.8	81.8	81.8	80.2	78.5	83.4	86.6	91.4	101.0
170°	80.2	78.5	80.2	80.2	80.2	80.2	80.2	85.0	85.0	86.6	91.4
172.5°	81.8	81.8	81.8	83.4	86.6	88.2	86.6	89.8	88.2	88.2	88.2
175°	83.4	83.4	85.0	86.6	88.2	89.8	91.4	91.4	91.4	93.0	93.0
177.5°	83.4	83.4	85.0	86.6	88.2	85.0	81.8	80.2	78.5	78.5	78.5
180°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	453.7	413.6	357.5	381.5	455.3	440.8	367.1	322.2	325.4	357.5	360.7
5°	264.5	272.5	309.4	386.3	400.8	331.8	267.7	258.1	311.0	384.7	399.2
7.5°	238.9	238.9	269.3	375.1	421.6	346.3	261.3	235.6	275.7	336.6	346.3
10°	288.5	278.9	282.1	320.6	338.2	277.3	234.0	222.8	245.3	253.3	250.1
12.5°	325.4	331.8	362.3	354.3	277.3	226.0	211.6	210.0	222.8	230.8	229.2
15°	349.5	338.2	315.8	290.1	264.5	235.6	214.8	202.0	187.6	181.1	181.1
17.5°	371.9	349.5	309.4	285.3	259.7	238.9	219.6	200.4	194.0	195.6	195.6
20°	399.2	371.9	335.0	307.8	277.3	248.5	224.4	203.6	198.8	200.4	198.8
22.5°	420.0	395.9	357.5	322.2	290.1	258.1	234.0	213.2	206.8	205.2	205.2
25°	445.6	424.8	384.7	341.4	303.0	272.5	251.7	227.6	216.4	213.2	213.2
27.5°	479.3	461.7	416.8	370.3	325.4	290.1	267.7	242.1	226.0	219.6	218.0
30°	530.6	506.6	456.9	399.2	352.7	315.8	288.5	256.5	237.2	226.0	224.4
32.5°	607.5	577.1	511.4	439.2	383.1	344.7	311.0	270.9	246.9	234.0	232.4
35°	771.1	737.4	654.0	553.0	471.3	392.7	339.8	286.9	256.5	240.5	238.9
37.5°	873.7	812.7	711.7	620.4	521.0	474.5	407.2	336.6	269.3	248.5	245.3
40°	1022.7	944.2	817.5	694.1	519.4	517.8	472.9	410.4	317.4	262.9	258.1
42.5°	1133.3	1032.4	873.7	735.8	524.2	538.6	500.1	445.6	376.7	306.2	298.2
45°	1359.4	1231.1	979.5	772.7	530.6	562.7	524.2	466.5	405.6	355.9	351.1
47.5°	1782.6	1604.6	1184.6	843.2	602.7	642.8	573.9	506.6	447.2	397.6	386.3
50°	2374.1	2160.9	1433.1	905.7	726.2	817.5	705.3	602.7	532.2	493.7	482.5
52.5°	3068.2	2829.4	1588.6	1003.5	875.3	1032.4	908.9	788.7	695.7	702.1	695.7
55°	3842.5	3560.3	1724.9	1151.0	1066.0	1271.2	1136.6	1032.4	982.7	1122.1	1130.1
57.5°	4589.5	4288.1	1809.8	1306.5	1279.2	1546.9	1389.8	1316.1	1335.3	1744.1	1840.3
60°	5302.8	4826.7	1875.5	1452.3	1458.8	1763.3	1643.1	1628.7	1688.0	2212.2	2358.1
62.5°	5714.8	5102.5	1872.3	1546.9	1571.0	1896.4	1790.6	1798.6	1843.5	2289.1	2411.0
65°	5995.3	5241.9	1840.3	1595.0	1619.1	1944.5	1808.2	1745.7	1716.8	2021.4	2151.3
67.5°	5827.0	4972.6	1763.3	1553.3	1585.4	1867.5	1697.6	1540.5	1490.8	1655.9	1732.9
70°	4926.1	4155.1	1571.0	1412.3	1433.1	1575.8	1431.5	1260.0	1210.3	1296.9	1332.1
72.5°	3722.2	3190.0	1409.1	1304.9	1255.2	1303.3	1162.2	982.7	971.4	1017.9	1024.3
75°	2973.6	2503.9	1284.0	1176.6	1043.6	1093.3	923.3	731.0	716.6	719.8	703.7
77.5°	2241.0	1862.7	1080.4	926.6	790.3	872.1	686.1	505.0	480.9	471.3	453.7
80°	1534.1	1293.6	734.2	620.4	561.1	639.6	488.9	370.3	368.7	365.5	346.3
82.5°	1088.5	998.7	599.5	527.4	476.1	503.4	424.8	346.3	338.2	339.8	319.0
85°	952.2	904.1	578.7	533.8	484.1	482.5	405.6	323.8	320.6	322.2	303.0
87.5°	910.5	857.6	565.9	509.8	461.7	437.6	357.5	285.3	293.4	298.2	280.5
90°	815.9	761.4	513.0	455.3	408.8	367.1	303.0	258.1	270.9	274.1	258.1
92.5°	687.7	631.6	399.2	365.5	343.0	336.6	283.7	245.3	254.9	256.5	243.7
95°	581.9	530.6	347.9	322.2	306.2	304.6	256.5	222.8	227.6	226.0	214.8
97.5°	468.1	431.2	304.6	280.5	262.9	253.3	219.6	194.0	200.4	203.6	195.6
100°	399.2	378.3	283.7	262.9	242.1	229.2	200.4	179.5	186.0	192.4	186.0
102.5°	375.1	359.1	278.9	256.5	234.0	218.0	190.8	168.3	171.5	179.5	174.7
105°	355.9	341.4	270.9	246.9	226.0	208.4	186.0	158.7	157.1	165.1	163.5
107.5°	335.0	322.2	266.1	237.2	214.8	198.8	177.9	152.3	145.9	150.7	149.1
110°	323.8	311.0	256.5	226.0	202.0	187.6	168.3	147.5	139.5	141.1	141.1



REPORT NUMBER: P856218

CATALOG NUMBER: FFX-CLB-100-740-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	301.4	286.9	235.6	206.8	187.6	174.7	155.5	141.1	131.4	134.7	136.3
115°	286.9	267.7	216.4	195.6	174.7	163.5	152.3	139.5	128.2	128.2	129.8
117.5°	296.6	259.7	202.0	186.0	174.7	171.5	168.3	149.1	126.6	125.0	125.0
120°	283.7	261.3	219.6	214.8	203.6	194.0	173.1	147.5	123.4	120.2	120.2
122.5°	277.3	272.5	248.5	232.4	211.6	192.4	161.9	134.7	118.6	115.4	115.4
125°	274.1	269.3	240.5	210.0	182.7	163.5	144.3	126.6	117.0	112.2	112.2
127.5°	251.7	229.2	194.0	176.3	158.7	150.7	134.7	123.4	112.2	105.8	105.8
130°	232.4	211.6	181.1	161.9	147.5	141.1	129.8	118.6	107.4	101.0	99.4
132.5°	229.2	208.4	176.3	152.3	139.5	133.1	126.6	113.8	101.0	94.6	93.0
135°	213.2	189.2	157.1	144.3	136.3	131.4	126.6	110.6	97.8	91.4	91.4
137.5°	197.2	173.1	149.1	142.7	136.3	131.4	117.0	101.0	91.4	86.6	86.6
140°	198.8	171.5	152.3	147.5	137.9	123.4	110.6	99.4	91.4	85.0	83.4
142.5°	211.6	177.9	153.9	139.5	133.1	125.0	120.2	107.4	91.4	80.2	76.9
145°	232.4	192.4	173.1	166.7	155.5	141.1	123.4	99.4	83.4	73.7	72.1
147.5°	256.5	216.4	194.0	176.3	153.9	129.8	105.8	86.6	73.7	70.5	68.9
150°	222.8	184.3	166.7	142.7	123.4	104.2	86.6	76.9	70.5	68.9	68.9
152.5°	168.3	137.9	123.4	112.2	101.0	91.4	81.8	75.3	70.5	67.3	67.3
155°	145.9	129.8	115.4	104.2	93.0	83.4	75.3	72.1	67.3	67.3	65.7
157.5°	128.2	120.2	101.0	91.4	83.4	78.5	75.3	70.5	68.9	67.3	67.3
160°	117.0	112.2	93.0	85.0	80.2	76.9	76.9	73.7	68.9	67.3	67.3
162.5°	113.8	109.0	89.8	81.8	76.9	78.5	81.8	80.2	73.7	70.5	70.5
165°	112.2	109.0	91.4	80.2	76.9	78.5	86.6	88.2	80.2	75.3	73.7
167.5°	102.6	101.0	96.2	88.2	83.4	83.4	88.2	89.8	86.6	86.6	85.0
170°	93.0	93.0	94.6	96.2	93.0	88.2	85.0	85.0	89.8	94.6	96.2
172.5°	89.8	91.4	94.6	99.4	99.4	93.0	88.2	86.6	91.4	97.8	99.4
175°	94.6	96.2	97.8	97.8	94.6	93.0	91.4	89.8	93.0	99.4	101.0
177.5°	78.5	78.5	80.2	80.2	78.5	80.2	78.5	75.3	75.3	75.3	75.3
180°	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-1

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-740-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-740-U-FR-T5.

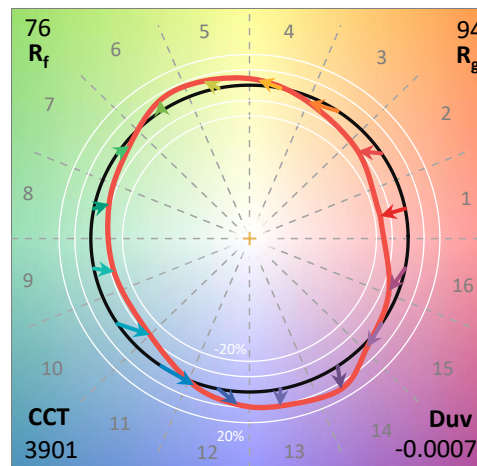
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-740-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 3901
 CIE u': 0.2273
 CIE v': 0.5026
 Duv: -0.0007
 CIE x: 0.3844
 CIE y: 0.3776
 CIE z: 0.2380
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 579
 Purity: 28.6799
 Rf: 76.2
 Rg: 94.4

CRI (Ra):	74.5		
R1:	71.8	R9:	-23.4
R2:	81.9	R10:	56.6
R3:	89.3	R11:	68.4
R4:	72.6	R12:	46.6
R5:	71.3	R13:	73.7
R6:	74.0	R14:	93.9
R7:	81.5	R15:	65.1
R8:	53.3		



Test Conditions

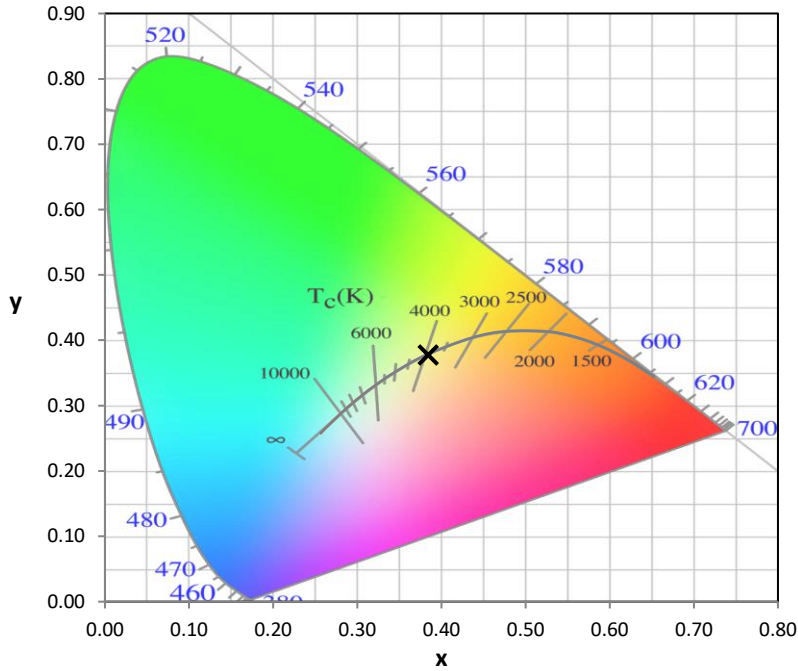
Stabilization Time: 0.818109M
 Operation Time: 1H
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

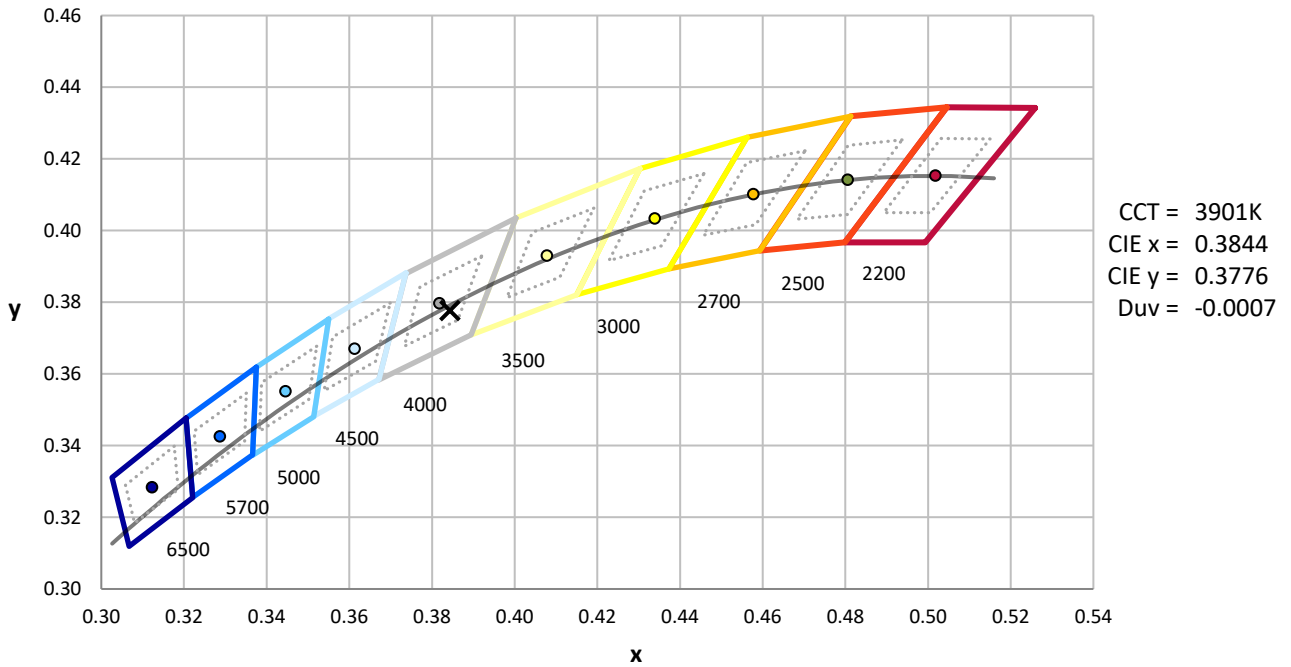
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2406-133-1

CIE 1931 Chromaticity Diagram



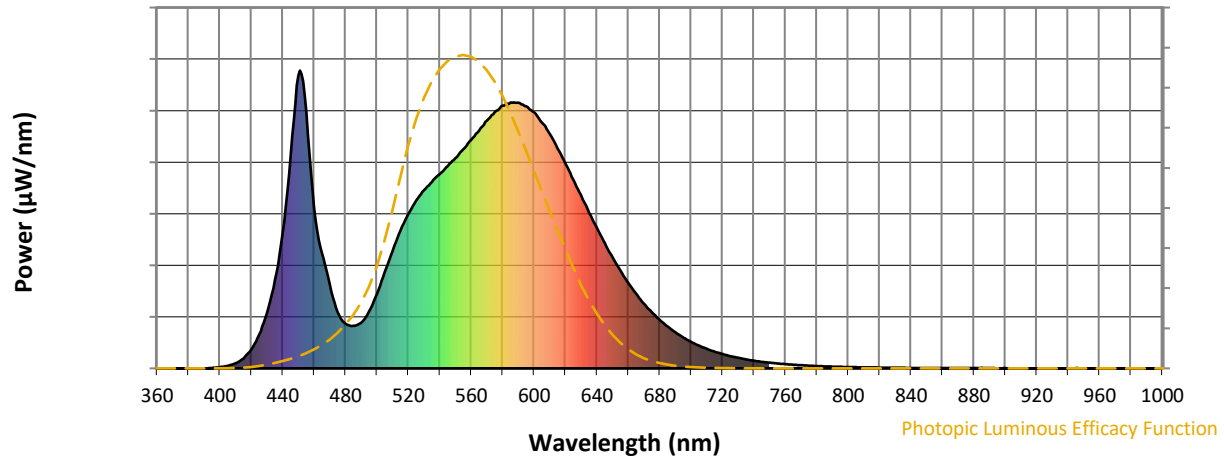
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

Photopic Flux vs. Wavelength

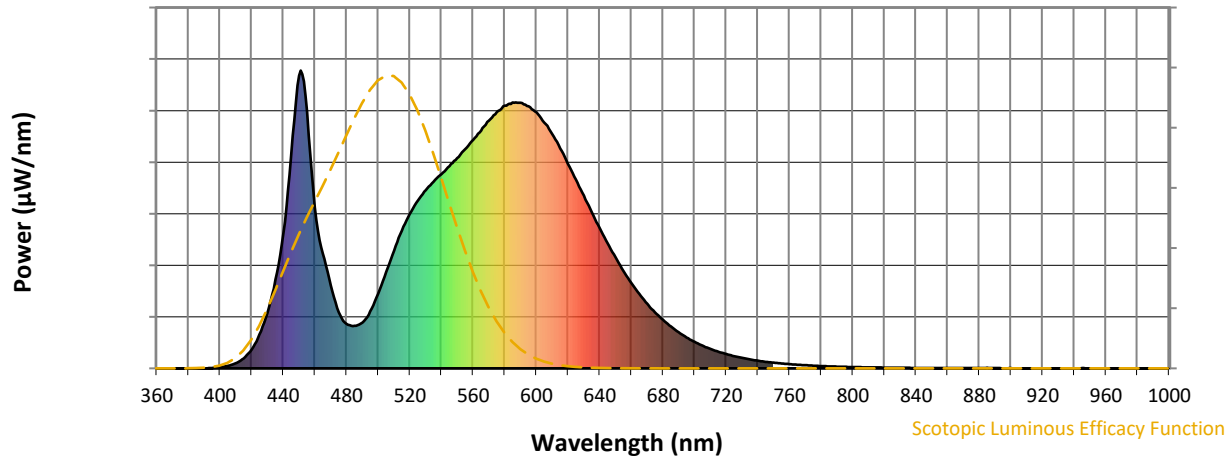


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



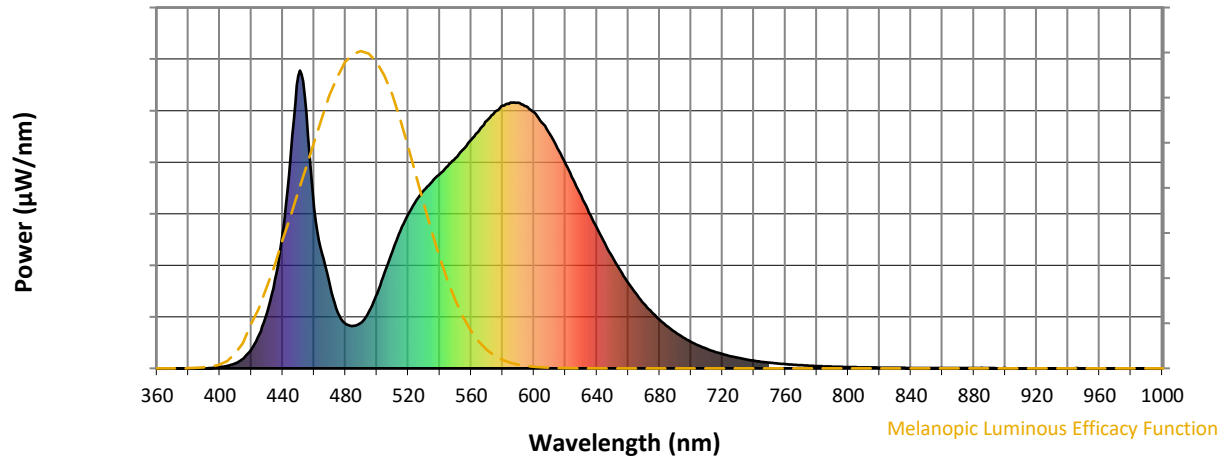
Scotopic Lumens: NR

S/P: 1.53

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	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

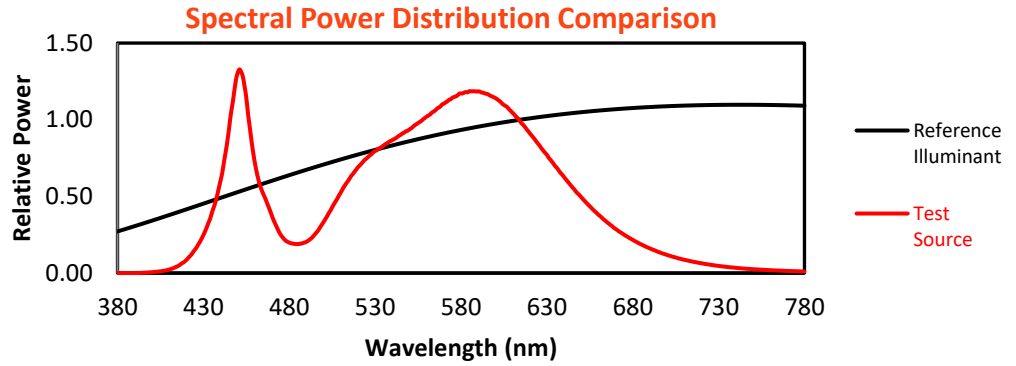
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	634	NR	755	17	NR	885	2	NR
370	0	NR	500	251	NR	630	581	NR	760	14	NR	890	1	NR
375	0	NR	505	323	NR	635	524	NR	765	12	NR	895	0	NR
380	0	NR	510	395	NR	640	471	NR	770	11	NR	900	1	NR
385	0	NR	515	462	NR	645	420	NR	775	9	NR	905	0	NR
390	0	NR	520	520	NR	650	373	NR	780	8	NR	910	0	NR
395	1	NR	525	563	NR	655	328	NR	785	7	NR	915	0	NR
400	4	NR	530	599	NR	660	286	NR	790	6	NR	920	0	NR
405	8	NR	535	627	NR	665	250	NR	795	5	NR	925	0	NR
410	17	NR	540	653	NR	670	217	NR	800	4	NR	930	0	NR
415	34	NR	545	679	NR	675	188	NR	805	4	NR	935	0	NR
420	63	NR	550	706	NR	680	163	NR	810	3	NR	940	0	NR
425	114	NR	555	737	NR	685	140	NR	815	3	NR	945	1	NR
430	186	NR	560	768	NR	690	121	NR	820	3	NR	950	0	NR
435	297	NR	565	798	NR	695	104	NR	825	2	NR	955	0	NR
440	454	NR	570	831	NR	700	89	NR	830	2	NR	960	0	NR
445	713	NR	575	860	NR	705	77	NR	835	2	NR	965	0	NR
450	983	NR	580	882	NR	710	65	NR	840	2	NR	970	0	NR
455	861	NR	585	893	NR	715	56	NR	845	1	NR	975	0	NR
460	540	NR	590	892	NR	720	48	NR	850	1	NR	980	0	NR
465	386	NR	595	880	NR	725	41	NR	855	1	NR	985	0	NR
470	279	NR	600	859	NR	730	35	NR	860	1	NR	990	0	NR
475	188	NR	605	825	NR	735	30	NR	865	1	NR	995	0	NR
480	149	NR	610	787	NR	740	26	NR	870	1	NR	1000	0	NR
485	143	NR	615	738	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-1

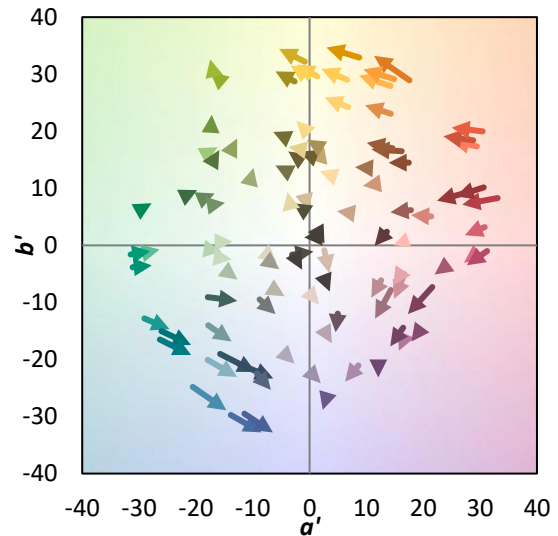
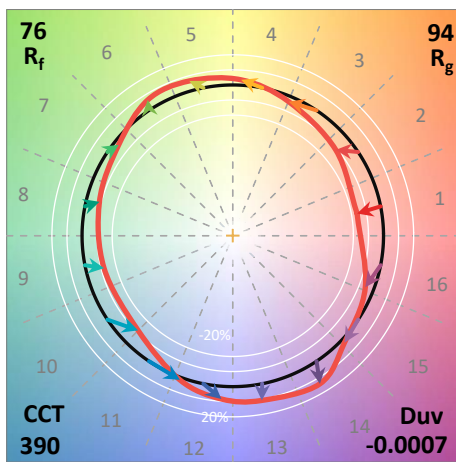
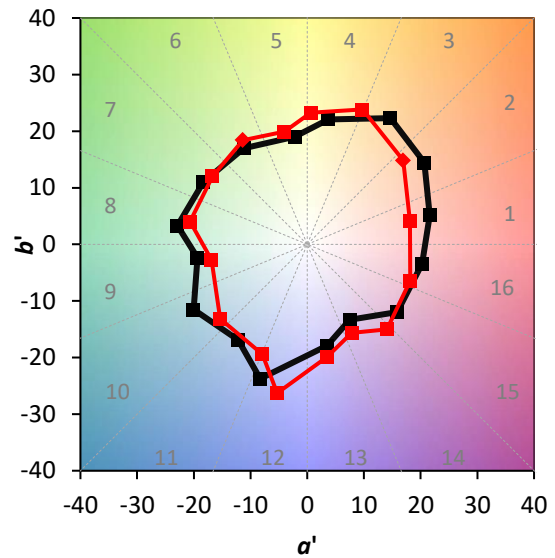
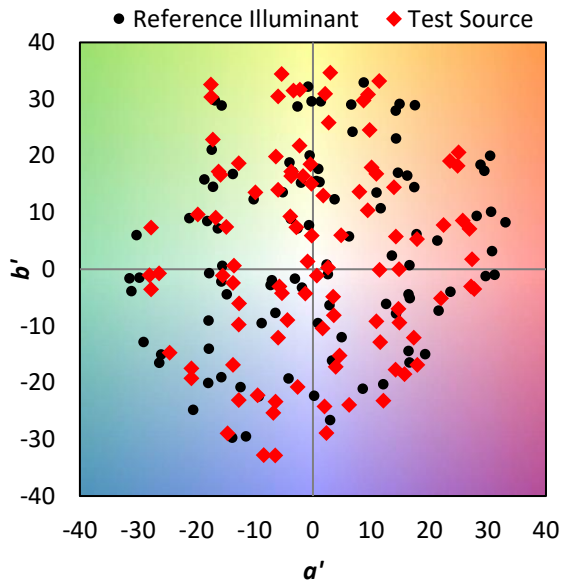
TM-30-18

Summary

$R_f = 76.2$
 $R_g = 94.4$
 CIE $R_a = 74.5$
 $R_g = -23.4$



Color Vector Graphics

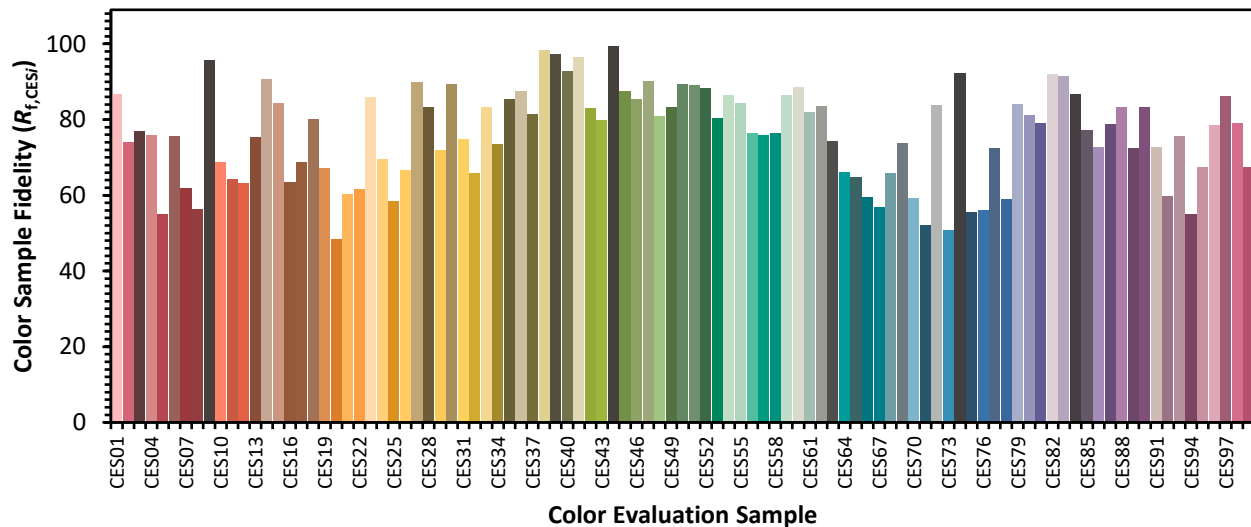


REPORT NUMBER: SP1-2406-133-1

TM-30-18

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

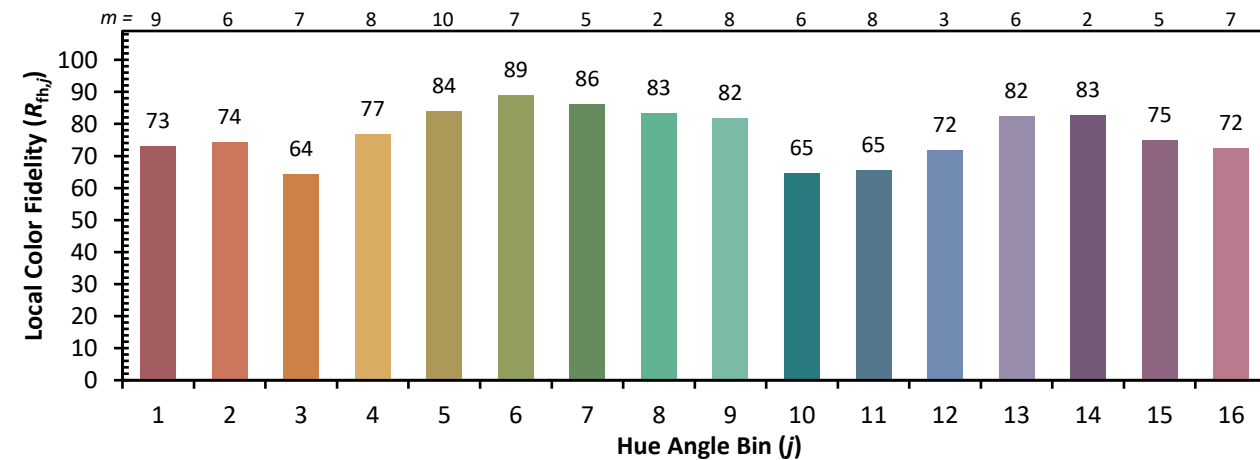
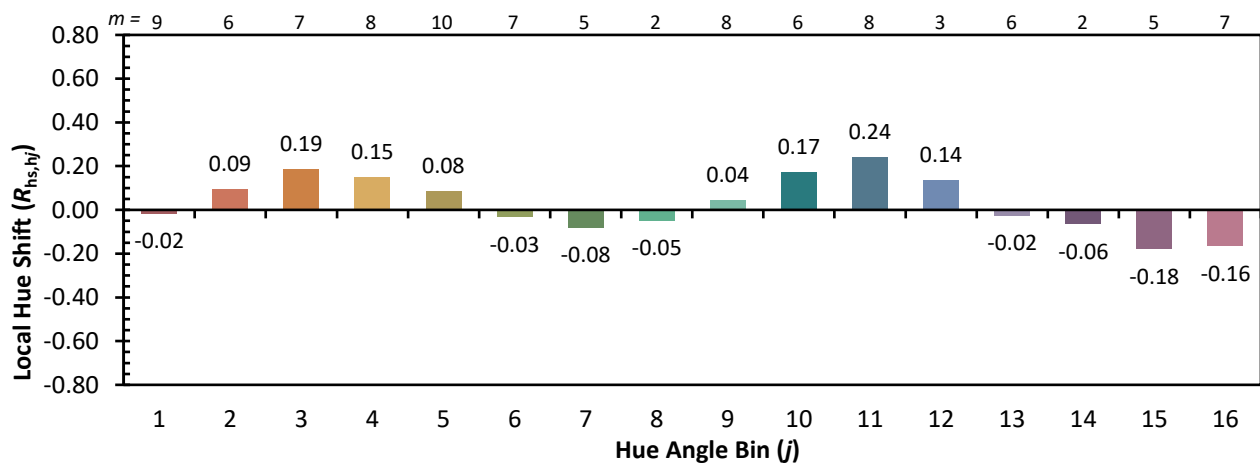
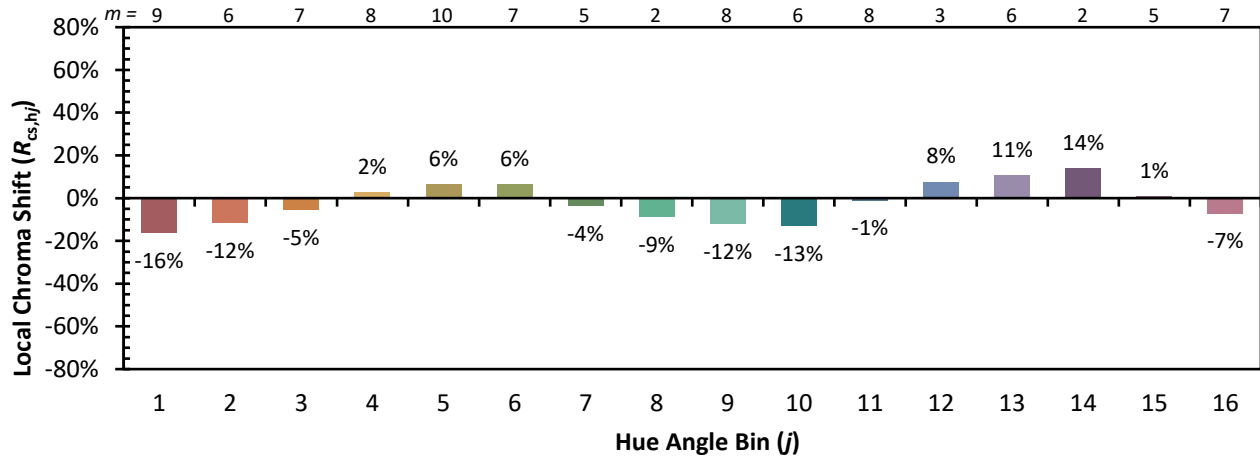
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 92
CES08 = 39	CES33 = 83	CES58 = 76	CES83 = 92
CES09 = 29	CES34 = 74	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 85	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 87	CES61 = 82	CES86 = 73
CES12 = 63	CES37 = 81	CES62 = 84	CES87 = 79
CES13 = 42	CES38 = 98	CES63 = 74	CES88 = 83
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 72
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 83
CES16 = 46	CES41 = 96	CES66 = 59	CES91 = 73
CES17 = 49	CES42 = 83	CES67 = 57	CES92 = 60
CES18 = 56	CES43 = 80	CES68 = 66	CES93 = 75
CES19 = 72	CES44 = 99	CES69 = 74	CES94 = 55
CES20 = 65	CES45 = 87	CES70 = 59	CES95 = 67
CES21 = 86	CES46 = 85	CES71 = 52	CES96 = 78
CES22 = 78	CES47 = 90	CES72 = 84	CES97 = 86
CES23 = 92	CES48 = 81	CES73 = 51	CES98 = 79
CES24 = 91	CES49 = 83	CES74 = 92	CES99 = 68
CES25 = 72	CES50 = 89	CES75 = 56	



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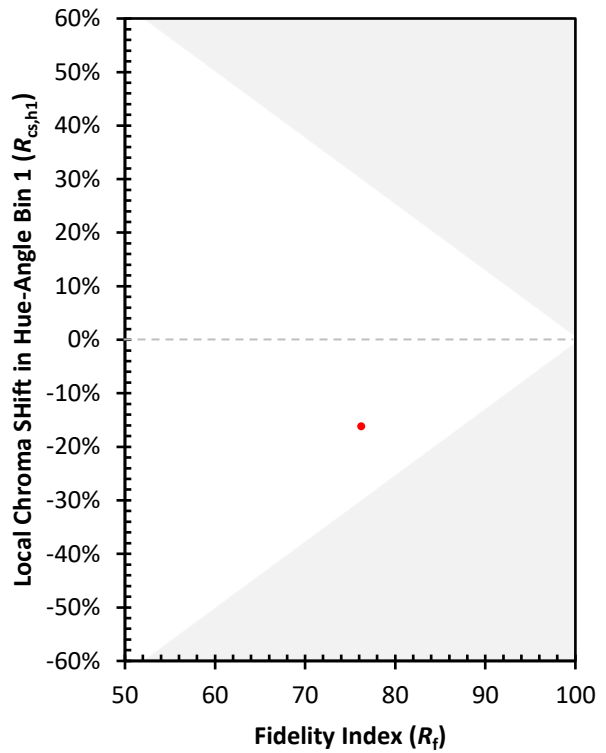
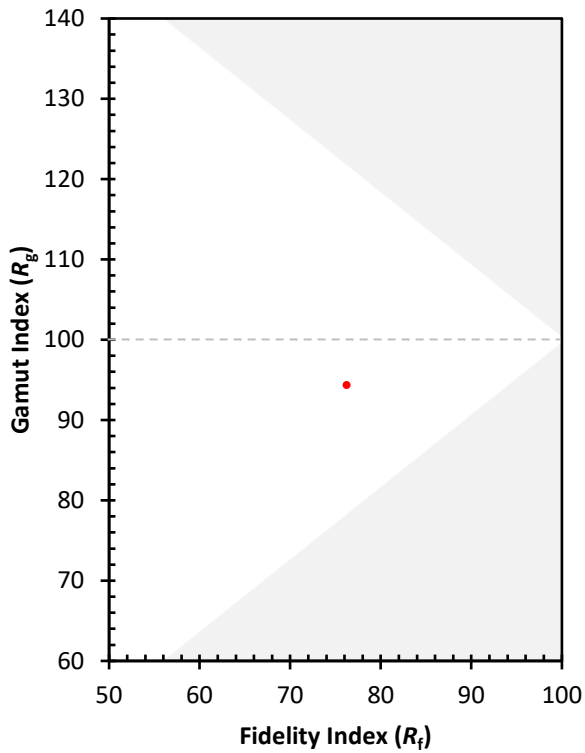
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)