

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: P856211

Luminaire Tested: **FFX-CLB-80-730-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856211  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-80-730-U-FR-T3-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (4) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

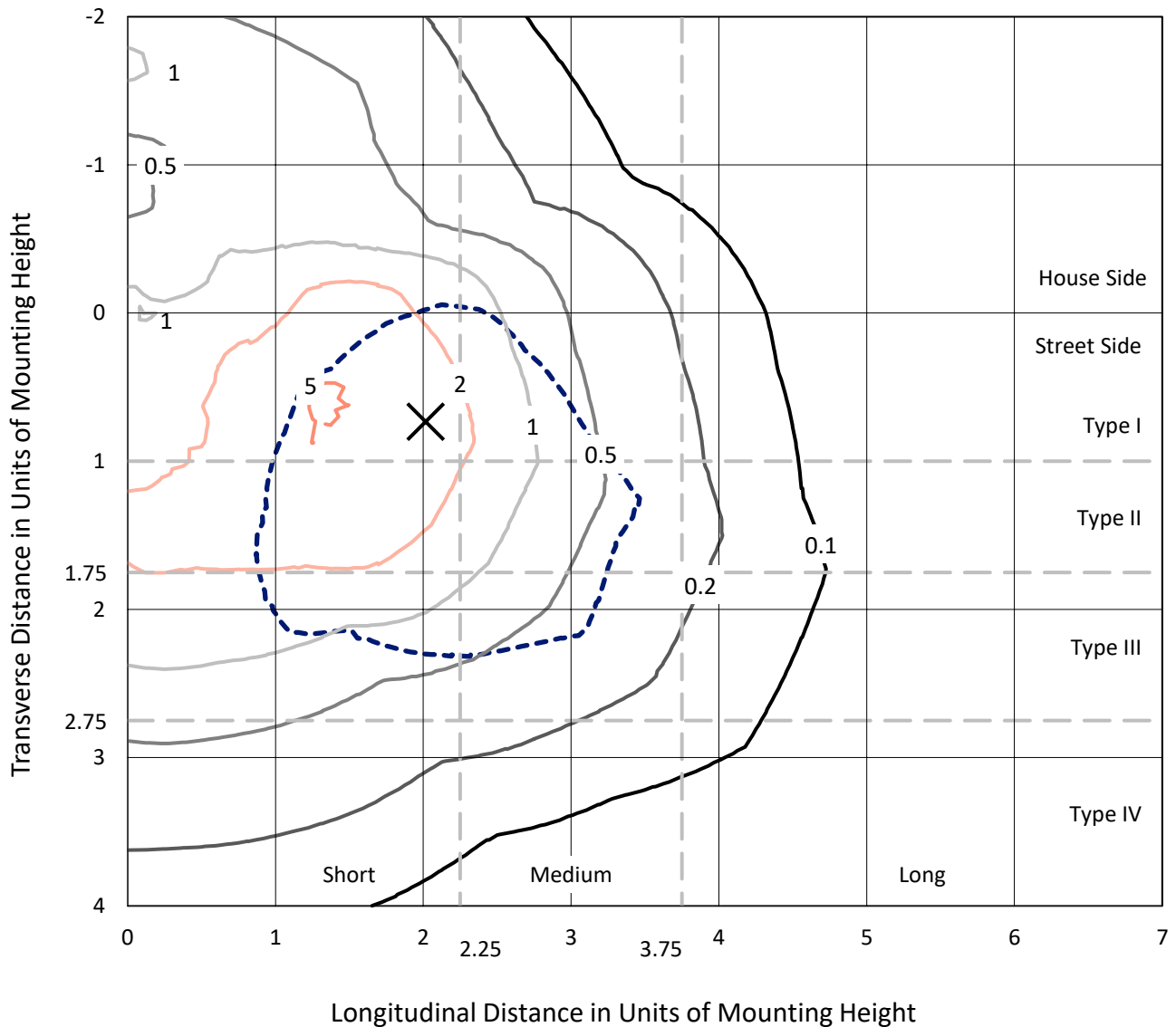
Lumens per Lamp: N/A  
Luminaire Lumens: 12344.3 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U4 - G4

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 6.1%%  
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

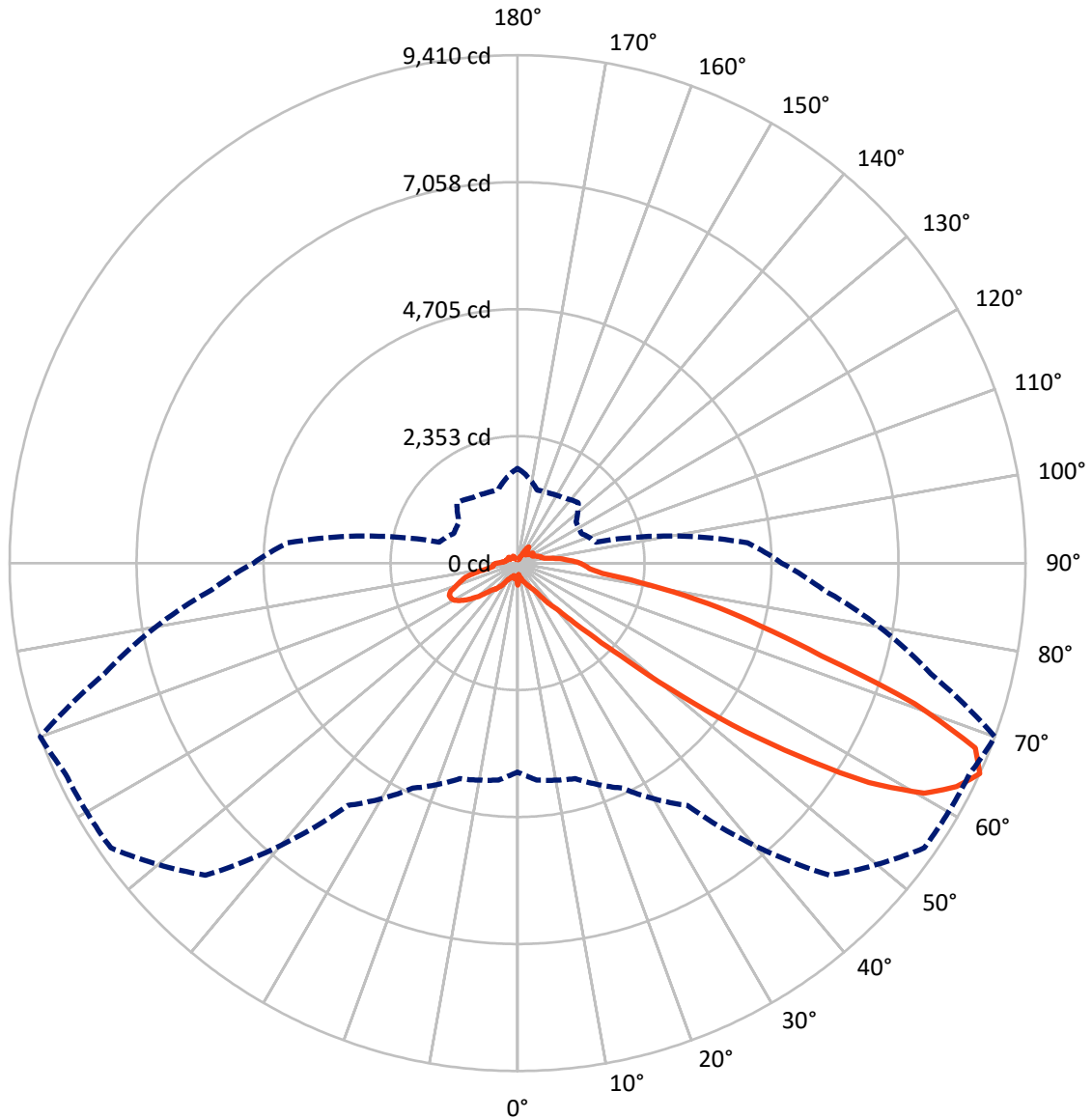
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P856211  
CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

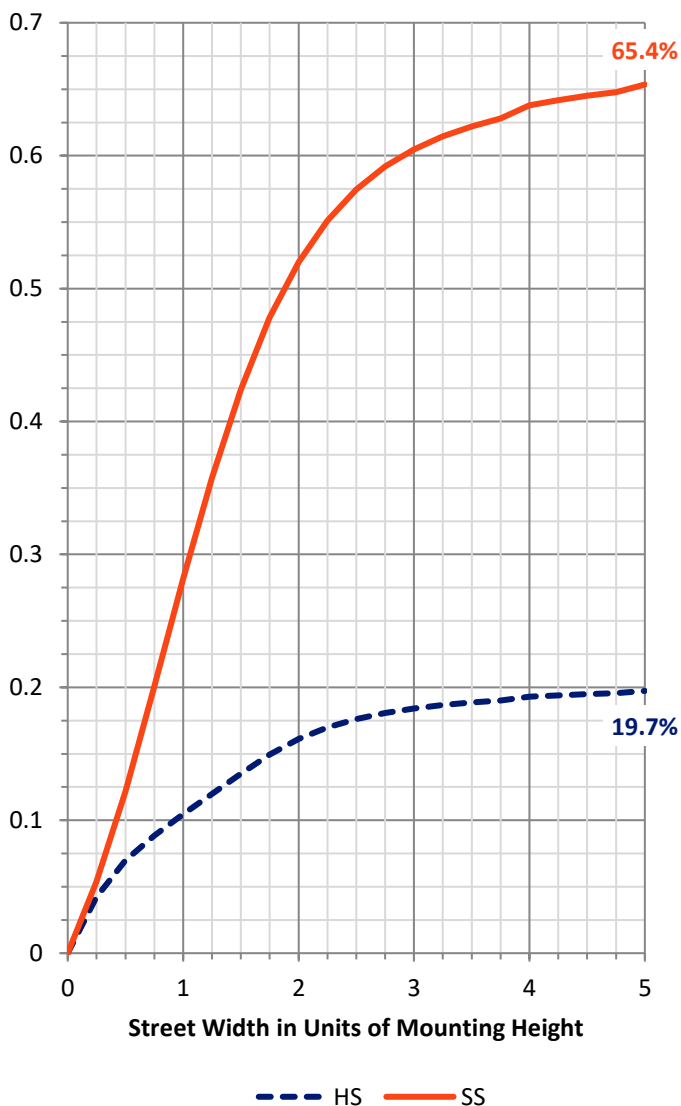
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2531.8	474.3	3006.1
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	8348.6	989.5	9338.1
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	10880.5	1463.8	12344.3
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.4	0.2
10°-20°	82.5	0.7
20°-30°	166.6	1.3
30°-40°	352.5	2.9
40°-50°	822.1	6.7
50°-60°	2449.8	19.8
60°-70°	3925.6	31.8
70°-80°	2255.1	18.3
80°-90°	799.8	6.5
90°-100°	471.7	3.8
100°-110°	285.0	2.3
110°-120°	214.3	1.7
120°-130°	181.5	1.5
130°-140°	120.5	1.0
140°-150°	113.2	0.9
150°-160°	50.2	0.4
160°-170°	20.8	0.2
170°-180°	6.9	0.1
0°-90°	10880.5	88.1
0°-180°	12344.3	100.0



REPORT NUMBER: P856211

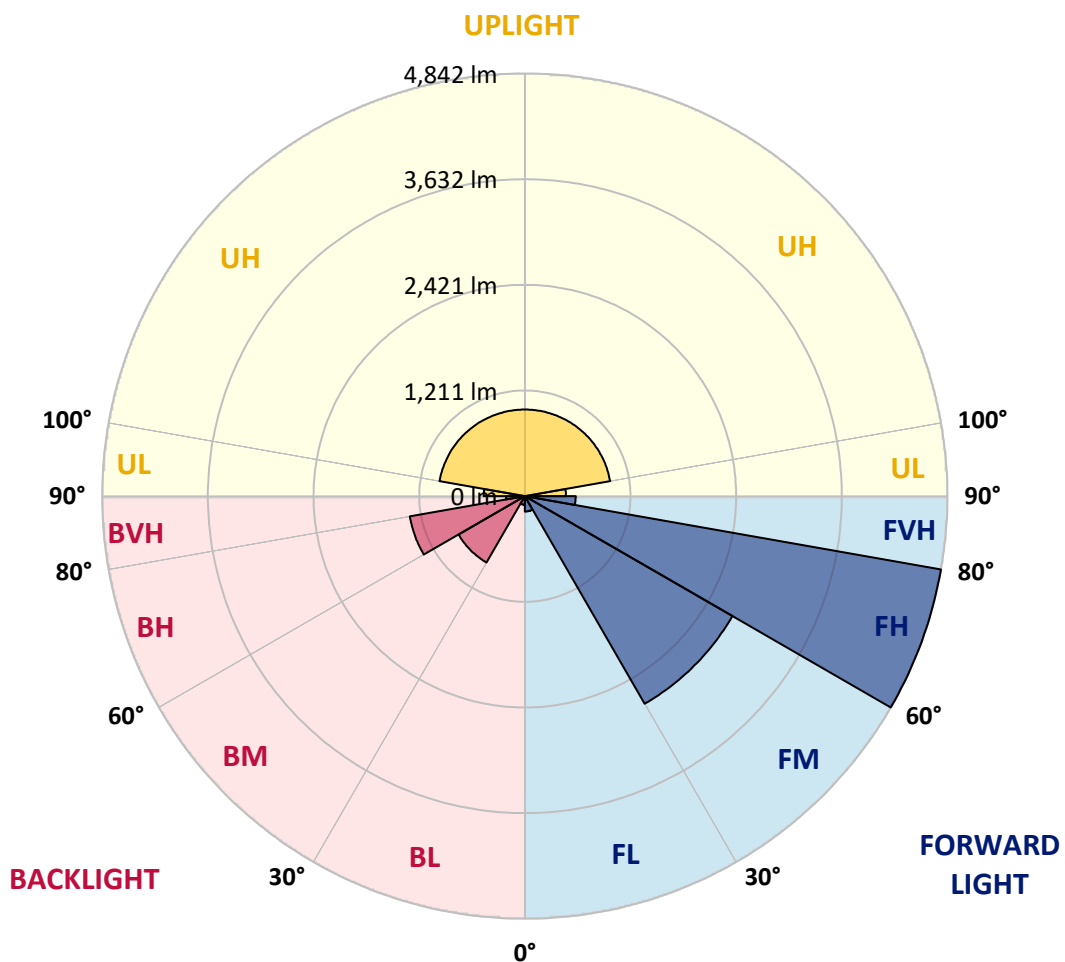
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.9	1.4			
FM (30°-60°)	2746.7	22.3			
FH (60°-80°)	4842.5	39.2			G2/5000
FVH (80°-90°)	582.6	4.7			G4/750
BL (0°-30°)	98.7	0.8	B0/110		
BM (30°-60°)	877.8	7.1	B1/1000		
BH (60°-80°)	1338.2	10.8	B3/2500		G3/2500
BVH (80°-90°)	217.2	1.8			G2/225
UL (90°-100°)	471.7	3.8		U3/500	
UH (100°-180°)	992.1	8.0		U4/1000	

**BUG Rating: B3-U4-G4**

Type III Short





REPORT NUMBER: P856211

CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5
2.5°	341.4	338.8	345.4	350.6	357.1	348.0	332.3	348.0	353.2	368.9	380.7
5°	290.4	291.7	298.3	312.7	325.7	323.1	282.6	230.2	214.5	208.0	209.3
7.5°	287.8	286.5	282.6	281.3	289.1	317.9	314.0	276.0	247.3	222.4	197.5
10°	303.5	307.4	311.4	311.4	306.1	287.8	286.5	283.9	273.4	261.6	245.9
12.5°	375.5	380.7	384.6	371.5	354.5	336.2	321.8	298.3	287.8	281.3	269.5
15°	454.0	459.2	452.6	427.8	397.7	363.7	350.6	351.9	337.5	320.5	295.7
17.5°	495.8	493.2	465.7	436.9	413.4	387.2	368.9	357.1	351.9	345.4	320.5
20°	469.7	463.1	446.1	434.3	431.7	417.3	405.6	395.1	388.5	374.2	344.1
22.5°	450.0	450.0	447.4	444.8	460.5	454.0	448.7	434.3	425.2	406.9	362.4
25°	474.9	474.9	476.2	472.3	493.2	493.2	493.2	477.5	465.7	439.6	385.9
27.5°	510.2	508.9	512.8	510.2	528.5	532.4	540.3	528.5	511.5	480.1	412.1
30°	548.1	548.1	552.1	554.7	573.0	582.2	591.3	586.1	565.2	527.2	456.6
32.5°	588.7	587.4	599.2	612.3	622.7	639.7	643.6	656.7	635.8	591.3	522.0
35°	647.6	651.5	682.9	710.4	740.5	750.9	769.2	820.3	799.3	739.1	659.3
37.5°	936.7	917.1	909.2	877.8	873.9	935.4	957.6	1006.0	964.2	883.1	761.4
40°	992.9	969.4	958.9	928.8	939.3	1066.2	1044.0	1218.0	1115.9	986.4	907.9
42.5°	935.4	931.5	1054.4	1078.0	1064.9	1266.4	1223.2	1545.0	1436.4	1135.5	1047.9
45°	1129.0	1118.5	1170.9	1212.7	1245.4	1607.8	1581.6	1920.5	1873.4	1382.8	1296.5
47.5°	1274.2	1263.7	1323.9	1463.9	1654.9	2047.4	2200.4	2712.0	2552.4	1902.2	1705.9
50°	1708.5	1702.0	1864.2	2014.7	2330.0	2909.5	3329.4	3881.5	3647.3	2657.0	2295.9
52.5°	2119.3	2140.3	2330.0	2619.1	2952.7	3999.2	4598.4	4985.7	4983.0	3460.3	2947.4
55°	2413.7	2484.3	2708.0	3230.0	3693.1	4966.0	5774.5	6061.0	6301.7	4616.7	3589.8
57.5°	2985.4	3108.3	3322.9	3839.6	4437.5	6135.6	7289.4	7242.3	7675.4	5816.4	4288.4
60°	3572.8	3716.7	3788.6	4263.5	5048.4	7262.0	8330.8	8220.9	8656.5	6860.3	5023.6
62.5°	3755.9	3897.2	3967.9	4484.6	5489.3	7900.4	8810.9	8854.1	9124.9	7604.7	5459.2
65°	3871.0	4033.3	4135.3	4601.0	5480.2	8179.0	9199.4	9240.0	9410.1	7925.2	5684.2
67.5°	3850.1	4032.0	4162.8	4580.1	5176.7	7947.5	9102.6	8919.5	9147.1	7696.3	5447.5
70°	3434.1	3592.4	3723.2	4045.0	4321.1	6695.5	7875.5	7573.3	7808.8	6429.9	4497.7
72.5°	2806.1	2871.6	2985.4	3137.1	3274.5	4967.3	6007.4	5748.3	5884.4	4823.4	3370.0
75°	2305.1	2292.0	2394.1	2503.9	2460.8	3629.0	4752.8	4516.0	4642.9	3663.0	2688.4
77.5°	1708.5	1702.0	1849.8	1840.7	1775.3	2513.1	3767.7	3596.3	3613.3	2705.4	2013.4
80°	1027.0	1046.6	1190.5	1219.3	1142.1	1576.4	2689.7	2608.6	2486.9	1848.5	1411.6
82.5°	720.8	750.9	826.8	858.2	820.3	1151.2	1781.8	1725.6	1581.6	1340.9	994.3
85°	735.2	740.5	749.6	752.2	735.2	1033.5	1382.8	1351.4	1342.2	1123.8	820.3
87.5°	735.2	747.0	754.8	753.5	723.4	968.1	1275.5	1225.8	1237.6	1050.5	792.8
90°	659.3	680.3	679.0	682.9	658.0	875.2	1156.5	1115.9	1131.6	947.2	720.8
92.5°	539.0	553.4	567.8	595.2	558.6	744.4	977.2	939.3	958.9	805.9	613.6
95°	501.1	514.1	523.3	537.7	501.1	662.0	864.7	818.9	826.8	684.2	519.4
97.5°	405.6	413.4	423.9	426.5	400.3	508.9	658.0	618.8	624.0	531.1	408.2
100°	340.1	346.7	355.8	355.8	338.8	421.2	520.7	499.7	497.1	434.3	345.4
102.5°	321.8	324.4	338.8	336.2	319.2	388.5	471.0	457.9	459.2	402.9	324.4
105°	316.6	316.6	331.0	324.4	310.0	370.2	440.9	436.9	435.6	383.3	311.4
107.5°	311.4	311.4	325.7	319.2	307.4	349.3	414.7	401.6	400.3	365.0	294.4
110°	290.4	294.4	310.0	302.2	293.0	329.7	380.7	371.5	371.5	344.1	281.3



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 CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	257.7	260.3	274.7	268.2	261.6	293.0	337.5	325.7	327.1	308.7	263.0
115°	240.7	244.6	259.0	249.9	244.6	273.4	312.7	304.8	307.4	290.4	248.6
117.5°	242.0	243.3	253.8	255.1	244.6	268.2	289.1	291.7	295.7	285.2	252.5
120°	294.4	287.8	293.0	286.5	281.3	308.7	333.6	336.2	334.9	315.3	251.2
122.5°	297.0	283.9	298.3	289.1	283.9	314.0	341.4	348.0	341.4	324.4	256.4
125°	236.8	240.7	242.0	244.6	249.9	282.6	297.0	298.3	299.6	294.4	248.6
127.5°	208.0	206.7	200.2	201.5	213.2	242.0	252.5	260.3	255.1	252.5	223.7
130°	198.9	201.5	200.2	200.2	206.7	228.9	236.8	248.6	244.6	239.4	204.1
132.5°	183.2	185.8	197.5	211.9	209.3	217.2	219.8	231.6	232.9	232.9	205.4
135°	174.0	176.6	185.8	204.1	198.9	202.8	201.5	211.9	213.2	214.5	193.6
137.5°	177.9	179.2	174.0	176.6	180.5	197.5	202.8	213.2	213.2	208.0	180.5
140°	187.1	187.1	175.3	171.4	179.2	205.4	215.9	232.9	230.2	221.1	187.1
142.5°	172.7	175.3	181.8	189.7	206.7	278.7	278.7	311.4	321.8	324.4	226.3
145°	225.0	226.3	228.9	232.9	265.6	365.0	332.3	355.8	365.0	374.2	272.1
147.5°	259.0	261.6	259.0	248.6	278.7	312.7	297.0	307.4	317.9	320.5	273.4
150°	202.8	200.2	198.9	197.5	230.2	240.7	227.6	226.3	234.2	240.7	211.9
152.5°	147.8	146.5	145.2	143.9	172.7	166.1	157.0	157.0	159.6	160.9	149.1
155°	130.8	129.5	126.9	128.2	146.5	140.0	132.1	129.5	132.1	130.8	124.3
157.5°	107.3	104.7	104.7	109.9	119.0	111.2	106.0	102.0	103.3	102.0	103.3
160°	89.0	87.7	89.0	95.5	100.7	94.2	89.0	86.3	86.3	89.0	94.2
162.5°	79.8	78.5	79.8	82.4	85.0	78.5	74.6	74.6	75.9	81.1	91.6
165°	69.3	69.3	70.6	72.0	73.3	69.3	68.0	68.0	70.6	78.5	90.3
167.5°	66.7	66.7	66.7	66.7	66.7	65.4	64.1	68.0	70.6	74.6	82.4
170°	65.4	64.1	65.4	65.4	65.4	65.4	65.4	69.3	69.3	70.6	74.6
172.5°	66.7	66.7	66.7	68.0	70.6	72.0	70.6	73.3	72.0	72.0	72.0
175°	68.0	68.0	69.3	70.6	72.0	73.3	74.6	74.6	74.6	75.9	75.9
177.5°	68.0	68.0	69.3	70.6	72.0	69.3	66.7	65.4	64.1	64.1	64.1
180°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5	409.5
2.5°	370.2	337.5	291.7	311.4	371.5	359.8	299.6	263.0	265.6	291.7	294.4
5°	215.9	222.4	252.5	315.3	327.1	270.8	218.5	210.6	253.8	314.0	325.7
7.5°	194.9	194.9	219.8	306.1	344.1	282.6	213.2	192.3	225.0	274.7	282.6
10°	235.5	227.6	230.2	261.6	276.0	226.3	191.0	181.8	200.2	206.7	204.1
12.5°	265.6	270.8	295.7	289.1	226.3	184.5	172.7	171.4	181.8	188.4	187.1
15°	285.2	276.0	257.7	236.8	215.9	192.3	175.3	164.8	153.1	147.8	147.8
17.5°	303.5	285.2	252.5	232.9	211.9	194.9	179.2	163.5	158.3	159.6	159.6
20°	325.7	303.5	273.4	251.2	226.3	202.8	183.2	166.1	162.2	163.5	162.2
22.5°	342.8	323.1	291.7	263.0	236.8	210.6	191.0	174.0	168.8	167.5	167.5
25°	363.7	346.7	314.0	278.7	247.3	222.4	205.4	185.8	176.6	174.0	174.0
27.5°	391.2	376.8	340.1	302.2	265.6	236.8	218.5	197.5	184.5	179.2	177.9
30°	433.0	413.4	372.8	325.7	287.8	257.7	235.5	209.3	193.6	184.5	183.2
32.5°	495.8	471.0	417.3	358.5	312.7	281.3	253.8	221.1	201.5	191.0	189.7
35°	629.3	601.8	533.8	451.3	384.6	320.5	277.3	234.2	209.3	196.2	194.9
37.5°	713.0	663.3	580.9	506.3	425.2	387.2	332.3	274.7	219.8	202.8	200.2
40°	834.6	770.5	667.2	566.5	423.9	422.6	385.9	334.9	259.0	214.5	210.6
42.5°	924.9	842.5	713.0	600.5	427.8	439.6	408.2	363.7	307.4	249.9	243.3
45°	1109.4	1004.7	799.3	630.6	433.0	459.2	427.8	380.7	331.0	290.4	286.5
47.5°	1454.7	1309.5	966.8	688.1	491.9	524.6	468.3	413.4	365.0	324.4	315.3
50°	1937.5	1763.5	1169.6	739.1	592.6	667.2	575.6	491.9	434.3	402.9	393.8
52.5°	2503.9	2309.0	1296.5	818.9	714.3	842.5	741.8	643.6	567.8	573.0	567.8
55°	3135.8	2905.6	1407.7	939.3	870.0	1037.4	927.5	842.5	801.9	915.8	922.3
57.5°	3745.5	3499.5	1477.0	1066.2	1044.0	1262.4	1134.2	1074.1	1089.8	1423.4	1501.8
60°	4327.6	3939.1	1530.6	1185.3	1190.5	1439.0	1340.9	1329.2	1377.6	1805.4	1924.4
62.5°	4663.8	4164.1	1528.0	1262.4	1282.1	1547.6	1461.3	1467.8	1504.5	1868.1	1967.6
65°	4892.8	4277.9	1501.8	1301.7	1321.3	1586.9	1475.7	1424.7	1401.1	1649.7	1755.6
67.5°	4755.4	4058.1	1439.0	1267.7	1293.8	1524.1	1385.4	1257.2	1216.7	1351.4	1414.2
70°	4020.2	3390.9	1282.1	1152.5	1169.6	1286.0	1168.2	1028.3	987.7	1058.4	1087.1
72.5°	3037.7	2603.4	1149.9	1064.9	1024.3	1063.6	948.5	801.9	792.8	830.7	836.0
75°	2426.8	2043.4	1047.9	960.2	851.7	892.2	753.5	596.6	584.8	587.4	574.3
77.5°	1828.9	1520.2	881.7	756.2	645.0	711.7	559.9	412.1	392.5	384.6	370.2
80°	1252.0	1055.7	599.2	506.3	457.9	522.0	399.0	302.2	300.9	298.3	282.6
82.5°	888.3	815.0	489.3	430.4	388.5	410.8	346.7	282.6	276.0	277.3	260.3
85°	777.1	737.8	472.3	435.6	395.1	393.8	331.0	264.3	261.6	263.0	247.3
87.5°	743.1	699.9	461.8	416.0	376.8	357.1	291.7	232.9	239.4	243.3	228.9
90°	665.9	621.4	418.6	371.5	333.6	299.6	247.3	210.6	221.1	223.7	210.6
92.5°	561.2	515.4	325.7	298.3	280.0	274.7	231.6	200.2	208.0	209.3	198.9
95°	474.9	433.0	283.9	263.0	249.9	248.6	209.3	181.8	185.8	184.5	175.3
97.5°	382.0	351.9	248.6	228.9	214.5	206.7	179.2	158.3	163.5	166.1	159.6
100°	325.7	308.7	231.6	214.5	197.5	187.1	163.5	146.5	151.8	157.0	151.8
102.5°	306.1	293.0	227.6	209.3	191.0	177.9	155.7	137.4	140.0	146.5	142.6
105°	290.4	278.7	221.1	201.5	184.5	170.1	151.8	129.5	128.2	134.7	133.4
107.5°	273.4	263.0	217.2	193.6	175.3	162.2	145.2	124.3	119.0	123.0	121.7
110°	264.3	253.8	209.3	184.5	164.8	153.1	137.4	120.4	113.8	115.1	115.1



REPORT NUMBER: P856211

CATALOG NUMBER: FFX-CLB-80-730-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	245.9	234.2	192.3	168.8	153.1	142.6	126.9	115.1	107.3	109.9	111.2
115°	234.2	218.5	176.6	159.6	142.6	133.4	124.3	113.8	104.7	104.7	106.0
117.5°	242.0	211.9	164.8	151.8	142.6	140.0	137.4	121.7	103.3	102.0	102.0
120°	231.6	213.2	179.2	175.3	166.1	158.3	141.3	120.4	100.7	98.1	98.1
122.5°	226.3	222.4	202.8	189.7	172.7	157.0	132.1	109.9	96.8	94.2	94.2
125°	223.7	219.8	196.2	171.4	149.1	133.4	117.7	103.3	95.5	91.6	91.6
127.5°	205.4	187.1	158.3	143.9	129.5	123.0	109.9	100.7	91.6	86.3	86.3
130°	189.7	172.7	147.8	132.1	120.4	115.1	106.0	96.8	87.7	82.4	81.1
132.5°	187.1	170.1	143.9	124.3	113.8	108.6	103.3	92.9	82.4	77.2	75.9
135°	174.0	154.4	128.2	117.7	111.2	107.3	103.3	90.3	79.8	74.6	74.6
137.5°	160.9	141.3	121.7	116.4	111.2	107.3	95.5	82.4	74.6	70.6	70.6
140°	162.2	140.0	124.3	120.4	112.5	100.7	90.3	81.1	74.6	69.3	68.0
142.5°	172.7	145.2	125.6	113.8	108.6	102.0	98.1	87.7	74.6	65.4	62.8
145°	189.7	157.0	141.3	136.1	126.9	115.1	100.7	81.1	68.0	60.2	58.9
147.5°	209.3	176.6	158.3	143.9	125.6	106.0	86.3	70.6	60.2	57.6	56.3
150°	181.8	150.4	136.1	116.4	100.7	85.0	70.6	62.8	57.6	56.3	56.3
152.5°	137.4	112.5	100.7	91.6	82.4	74.6	66.7	61.5	57.6	54.9	54.9
155°	119.0	106.0	94.2	85.0	75.9	68.0	61.5	58.9	54.9	54.9	53.6
157.5°	104.7	98.1	82.4	74.6	68.0	64.1	61.5	57.6	56.3	54.9	54.9
160°	95.5	91.6	75.9	69.3	65.4	62.8	62.8	60.2	56.3	54.9	54.9
162.5°	92.9	89.0	73.3	66.7	62.8	64.1	66.7	65.4	60.2	57.6	57.6
165°	91.6	89.0	74.6	65.4	62.8	64.1	70.6	72.0	65.4	61.5	60.2
167.5°	83.7	82.4	78.5	72.0	68.0	68.0	72.0	73.3	70.6	70.6	69.3
170°	75.9	75.9	77.2	78.5	75.9	72.0	69.3	69.3	73.3	77.2	78.5
172.5°	73.3	74.6	77.2	81.1	81.1	75.9	72.0	70.6	74.6	79.8	81.1
175°	77.2	78.5	79.8	79.8	77.2	75.9	74.6	73.3	75.9	81.1	82.4
177.5°	64.1	64.1	65.4	65.4	64.1	65.4	64.1	61.5	61.5	61.5	61.5
180°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-4

Test Date: 07/12/2024

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.

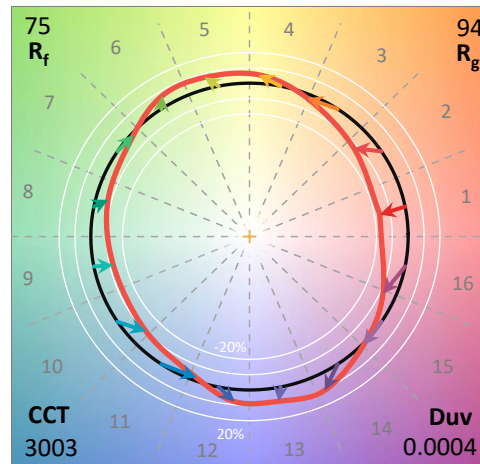
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-4  
 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-100-730-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 3003  
 CIE u': 0.2503  
 CIE v': 0.5219  
 Duv: 0.0004  
 CIE x: 0.4373  
 CIE y: 0.4053  
 CIE z: 0.1573  
 Peak Wavelength (nm): 595  
 Dominant Wavelength (nm): 582  
 Purity: 52.93545  
 Rf: 75.2  
 Rg: 93.8

CRI (Ra): 71.9  
 R1: 68.2  
 R2: 82.2  
 R3: 93.9  
 R4: 67.6  
 R5: 67.2  
 R6: 75.3  
 R7: 77.6  
 R8: 43.1  
 R9: -33.7  
 R10: 59.0  
 R11: 62.4  
 R12: 48.5  
 R13: 70.8  
 R14: 96.6  
 R15: 60.0



**Test Conditions**

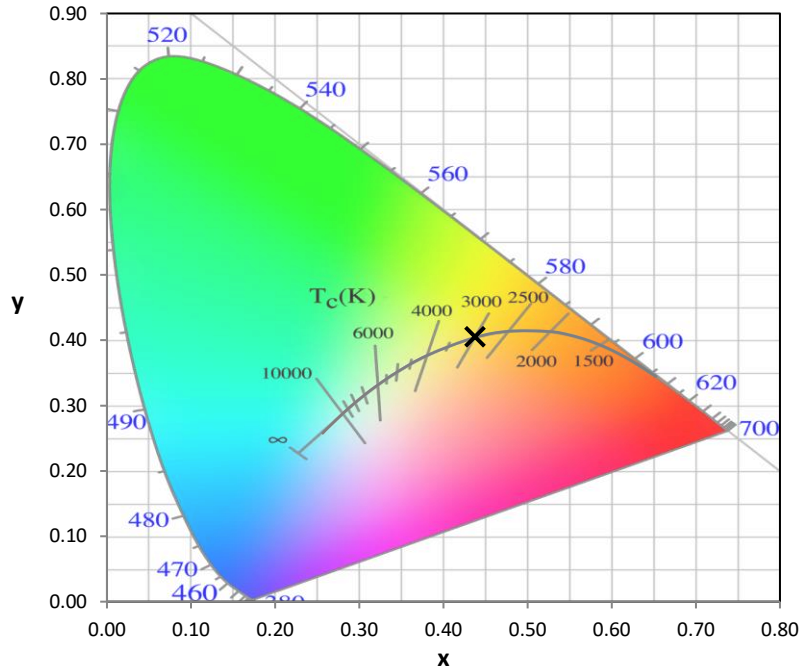
Stabilization Time: 0.794393M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-4

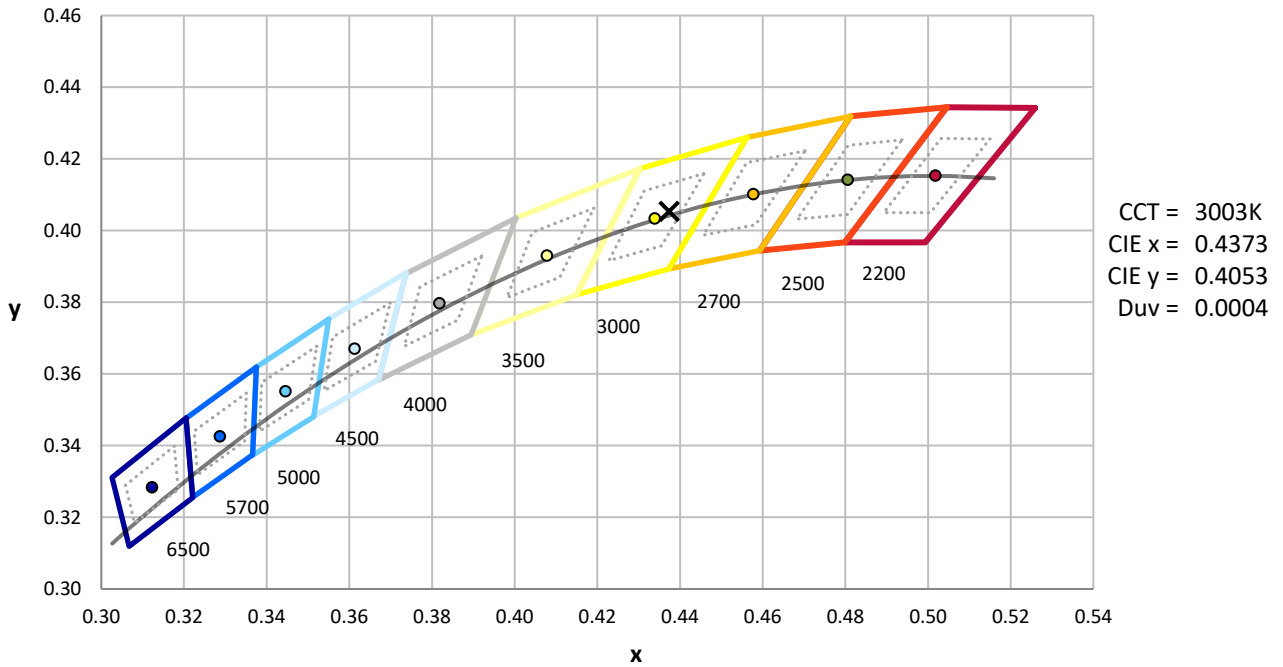
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-4

CIE 1931 Chromaticity Diagram



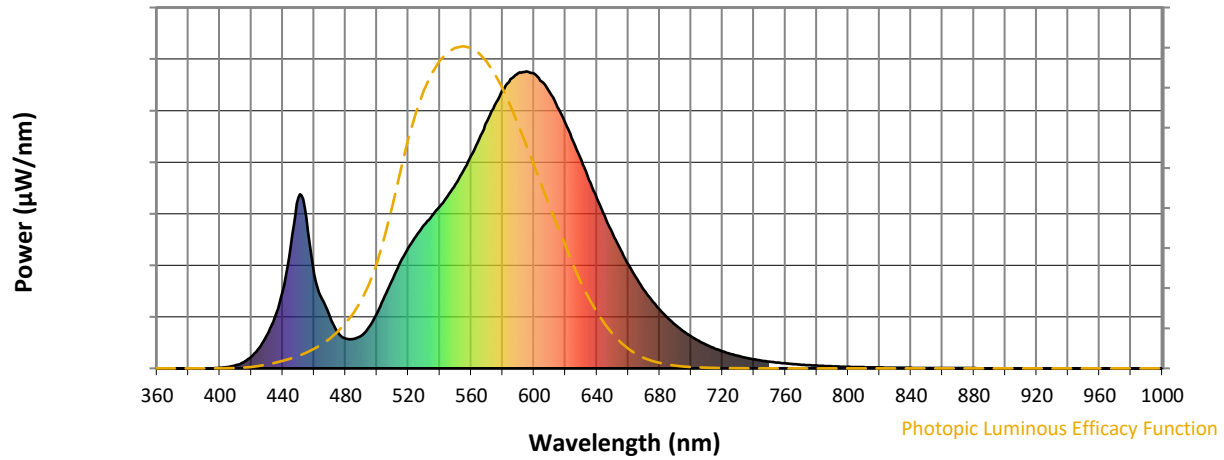
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-4

**Photopic Flux vs. Wavelength**

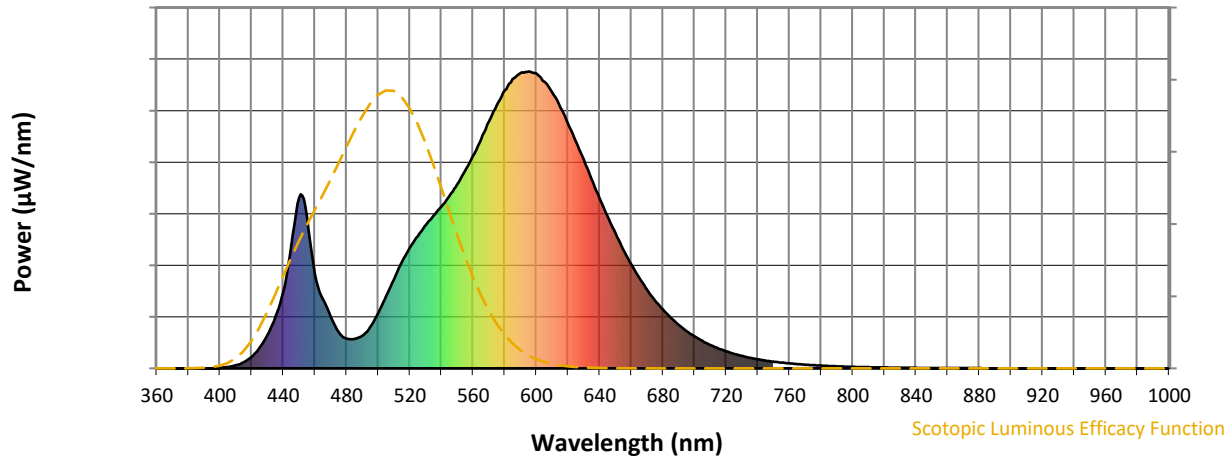


**Photopic Lumens: NR**

$\lambda$ (nm)	Power (W/nm)	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power (W/nm)	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power (W/nm)	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power (W/nm)	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power (W/nm)	Lumens ( $\phi$ /nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

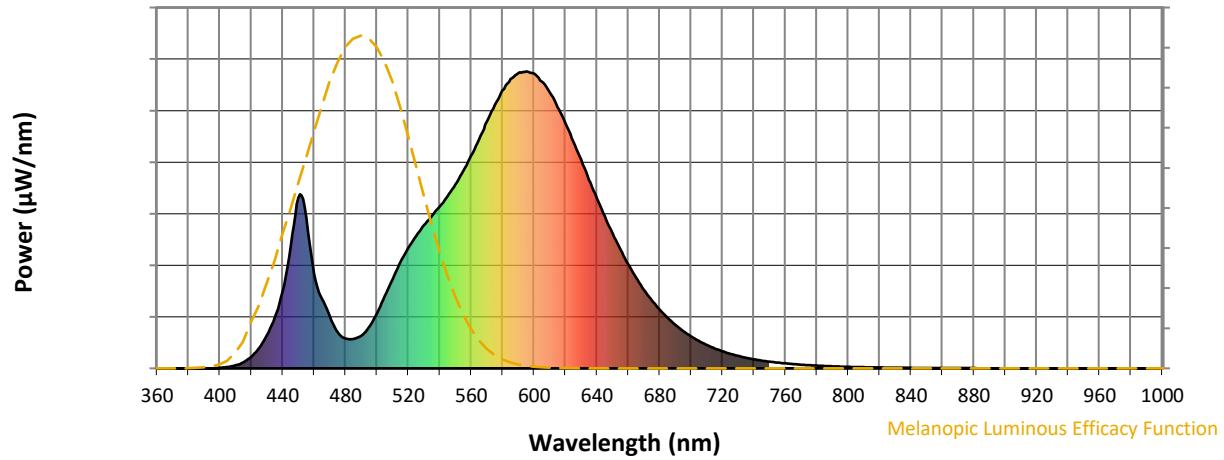
S/P: 1.21

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			



REPORT NUMBER: SP1-2406-133-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.22

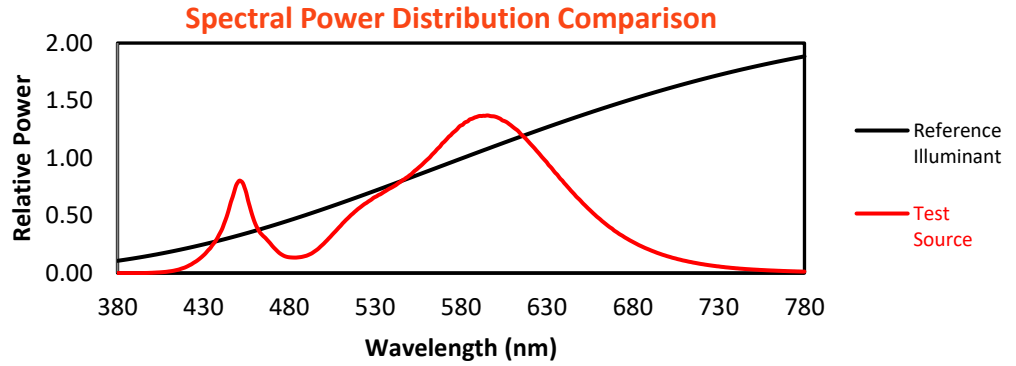
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	825	NR	750	23	NR	880	1	NR
365	0	NR	495	139	NR	625	765	NR	755	19	NR	885	1	NR
370	0	NR	500	186	NR	630	702	NR	760	17	NR	890	0	NR
375	0	NR	505	243	NR	635	635	NR	765	14	NR	895	0	NR
380	0	NR	510	301	NR	640	572	NR	770	12	NR	900	0	NR
385	0	NR	515	357	NR	645	512	NR	775	11	NR	905	0	NR
390	0	NR	520	406	NR	650	455	NR	780	9	NR	910	0	NR
395	0	NR	525	445	NR	655	400	NR	785	8	NR	915	0	NR
400	2	NR	530	483	NR	660	350	NR	790	7	NR	920	0	NR
405	5	NR	535	514	NR	665	305	NR	795	6	NR	925	0	NR
410	10	NR	540	545	NR	670	264	NR	800	5	NR	930	0	NR
415	21	NR	545	581	NR	675	229	NR	805	4	NR	935	0	NR
420	39	NR	550	620	NR	680	198	NR	810	4	NR	940	0	NR
425	69	NR	555	666	NR	685	170	NR	815	3	NR	945	0	NR
430	112	NR	560	716	NR	690	147	NR	820	3	NR	950	0	NR
435	174	NR	565	771	NR	695	125	NR	825	3	NR	955	0	NR
440	260	NR	570	831	NR	700	107	NR	830	2	NR	960	0	NR
445	410	NR	575	887	NR	705	92	NR	835	2	NR	965	0	NR
450	574	NR	580	937	NR	710	79	NR	840	2	NR	970	0	NR
455	508	NR	585	974	NR	715	67	NR	845	1	NR	975	0	NR
460	319	NR	590	994	NR	720	57	NR	850	1	NR	980	0	NR
465	234	NR	595	1000	NR	725	49	NR	855	1	NR	985	0	NR
470	174	NR	600	992	NR	730	42	NR	860	1	NR	990	0	NR
475	121	NR	605	966	NR	735	36	NR	865	1	NR	995	0	NR
480	100	NR	610	929	NR	740	30	NR	870	1	NR	1000	0	NR
485	99	NR	615	880	NR	745	26	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-4

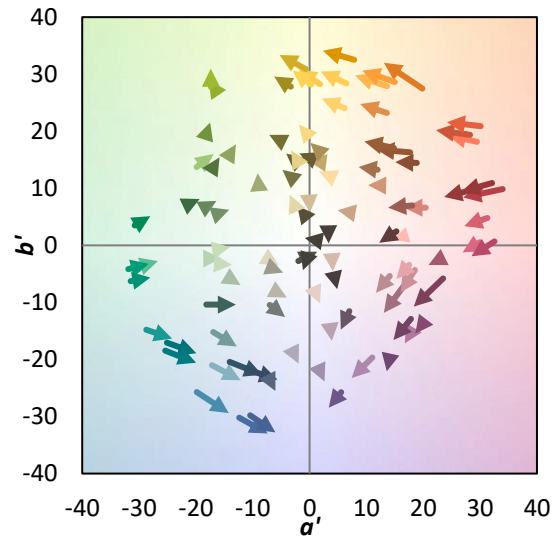
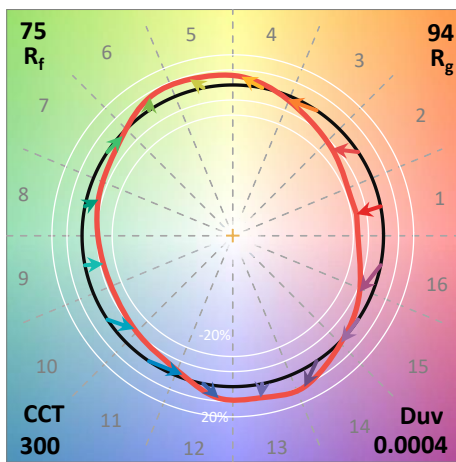
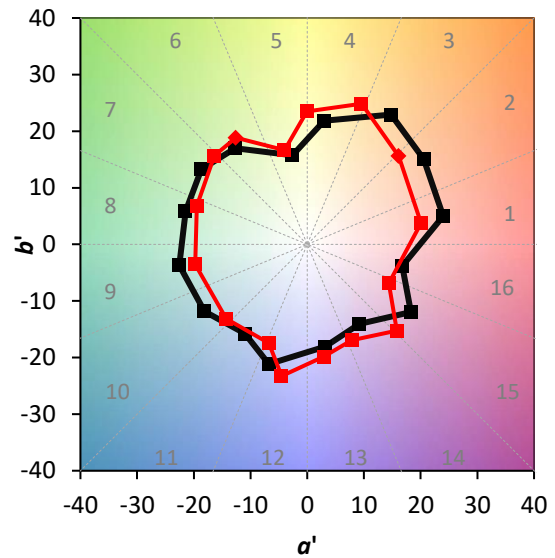
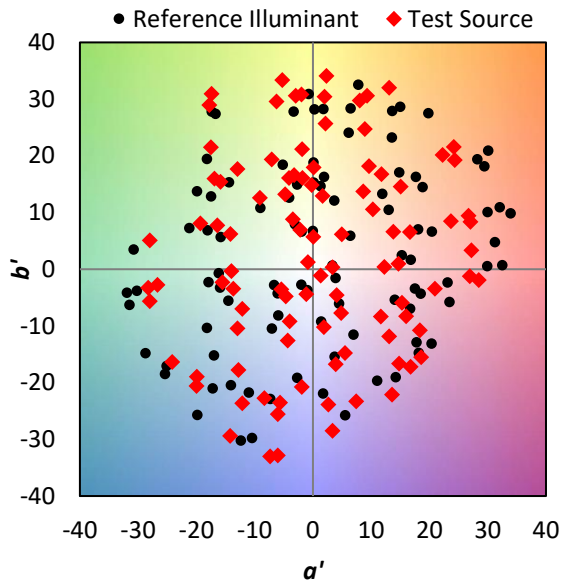
TM-30-18

**Summary**

$R_f = 75.2$   
 $R_g = 93.8$   
 CIE  $R_a = 71.9$   
 $R_9 = -33.7$



**Color Vector Graphics**

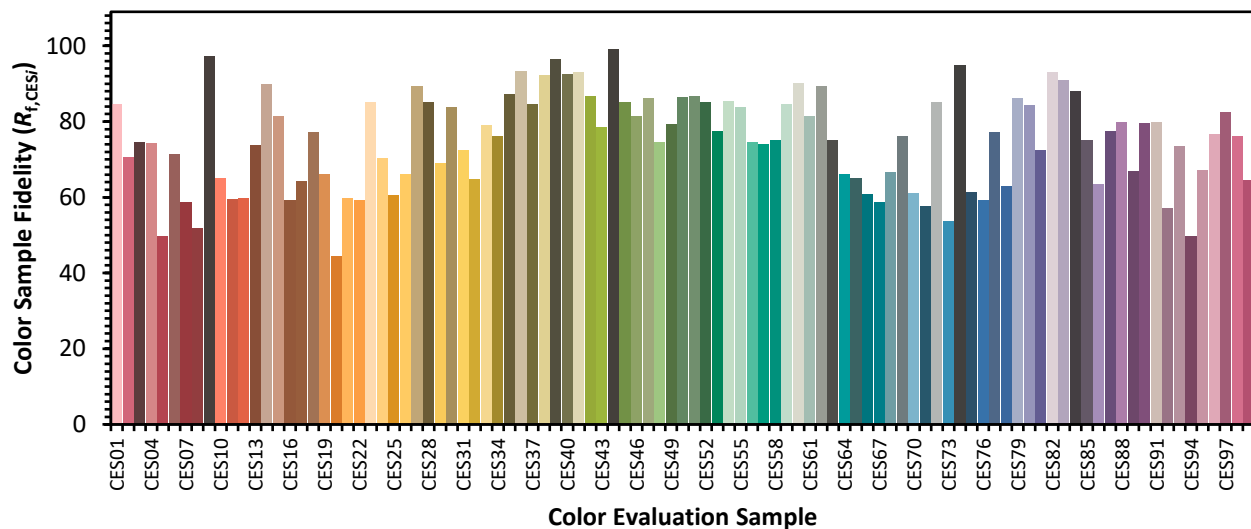


REPORT NUMBER: SP1-2406-133-4

TM-30-18

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

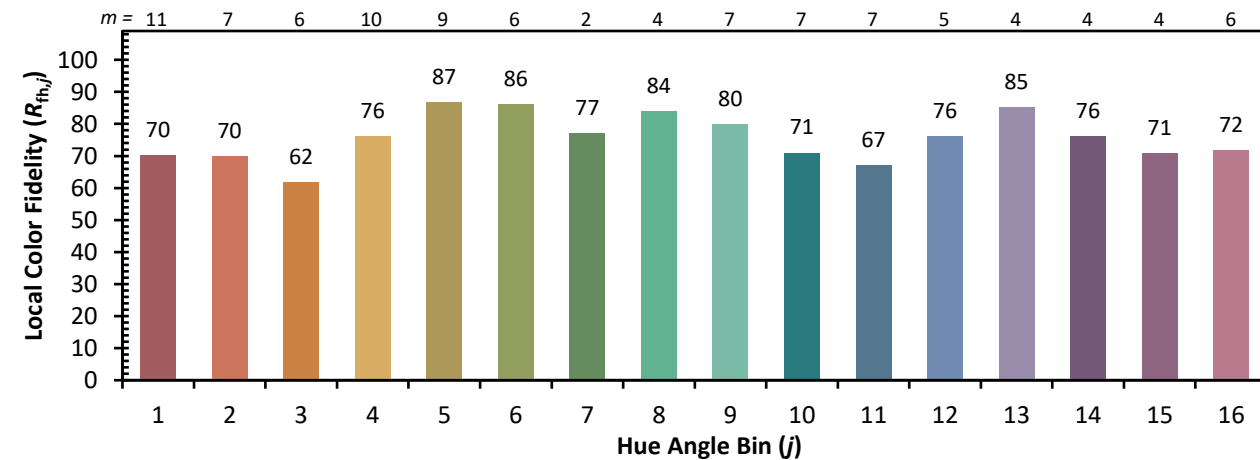
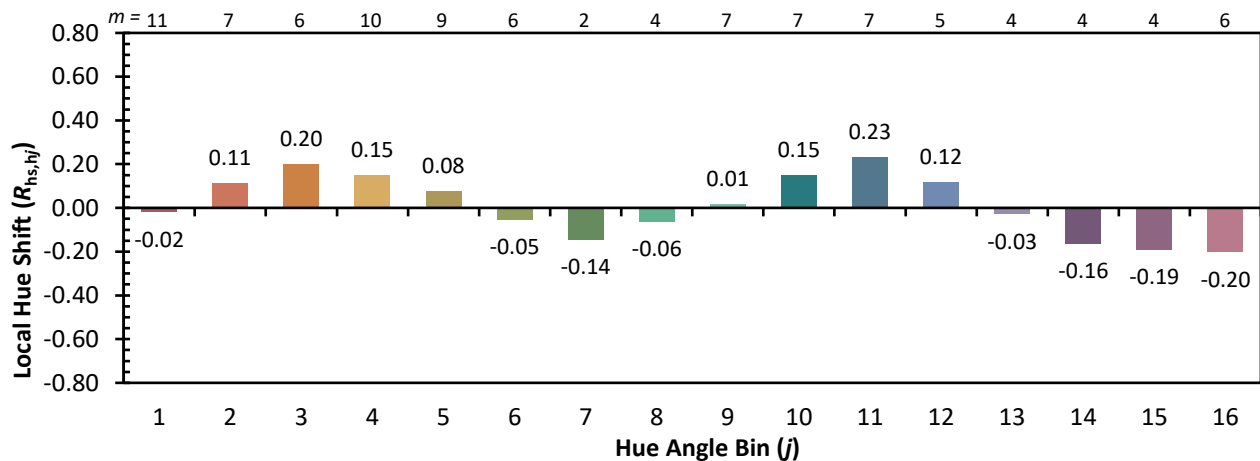
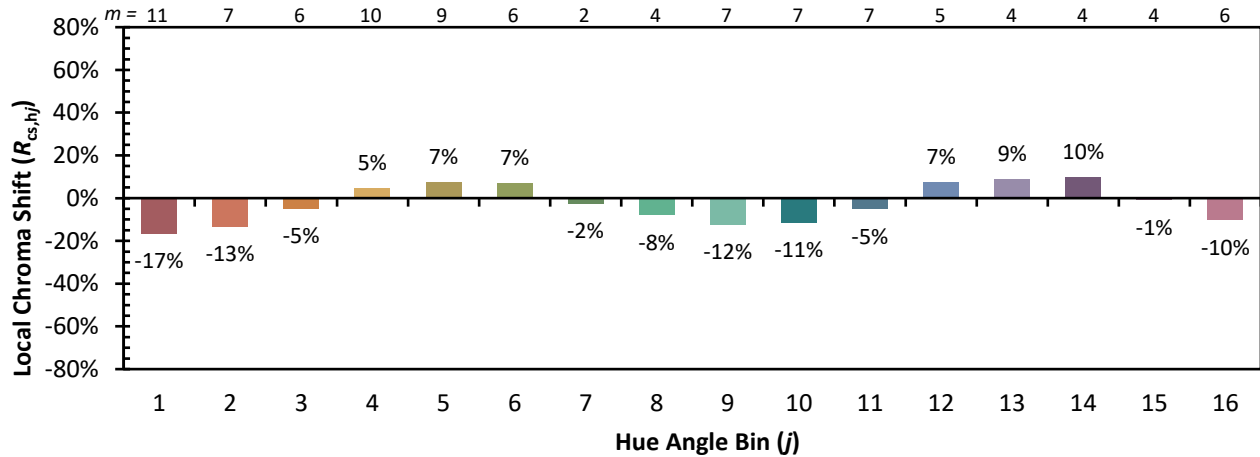
CES01 = 86	CES26 = 66	CES51 = 87	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 85	CES77 = 77
CES03 = 31	CES28 = 85	CES53 = 77	CES78 = 63
CES04 = 71	CES29 = 69	CES54 = 86	CES79 = 86
CES05 = 49	CES30 = 84	CES55 = 84	CES80 = 84
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 72
CES07 = 41	CES32 = 65	CES57 = 74	CES82 = 93
CES08 = 40	CES33 = 79	CES58 = 75	CES83 = 91
CES09 = 29	CES34 = 76	CES59 = 85	CES84 = 88
CES10 = 76	CES35 = 87	CES60 = 90	CES85 = 75
CES11 = 59	CES36 = 93	CES61 = 81	CES86 = 63
CES12 = 65	CES37 = 85	CES62 = 89	CES87 = 77
CES13 = 43	CES38 = 92	CES63 = 75	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 66	CES89 = 67
CES15 = 71	CES40 = 93	CES65 = 65	CES90 = 80
CES16 = 47	CES41 = 93	CES66 = 61	CES91 = 80
CES17 = 50	CES42 = 87	CES67 = 59	CES92 = 57
CES18 = 56	CES43 = 79	CES68 = 67	CES93 = 73
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 50
CES20 = 66	CES45 = 85	CES70 = 61	CES95 = 67
CES21 = 87	CES46 = 81	CES71 = 58	CES96 = 77
CES22 = 79	CES47 = 86	CES72 = 85	CES97 = 83
CES23 = 92	CES48 = 75	CES73 = 54	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 95	CES99 = 65
CES25 = 73	CES50 = 86	CES75 = 61	



REPORT NUMBER: SP1-2406-133-4

TM-30-18

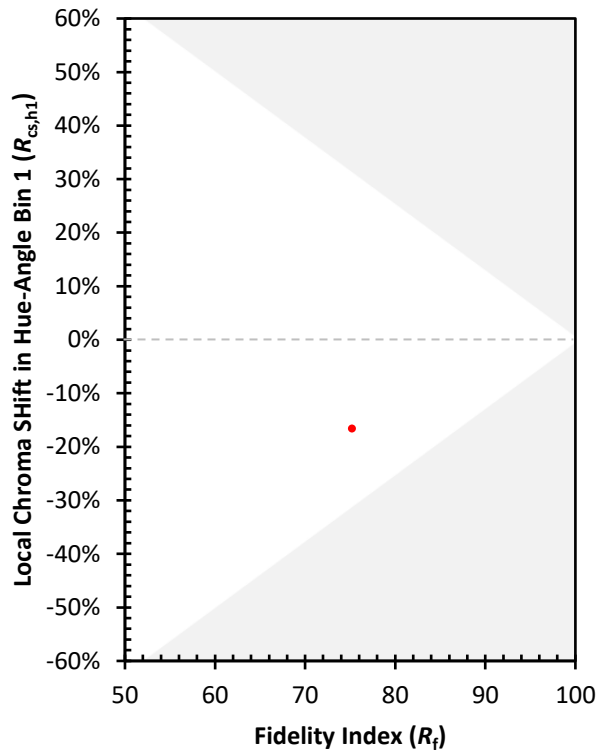
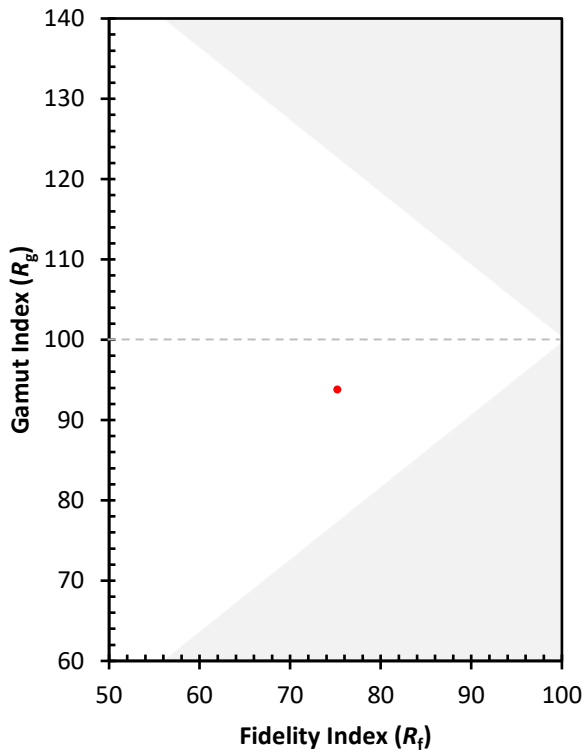
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-4

TM-30-18

Measure Comparisons



(END OF REPORT)