

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: P856200

Luminaire Tested: **FFX-CLB-100-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856200  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-100-727-U-FR-T3-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (4) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

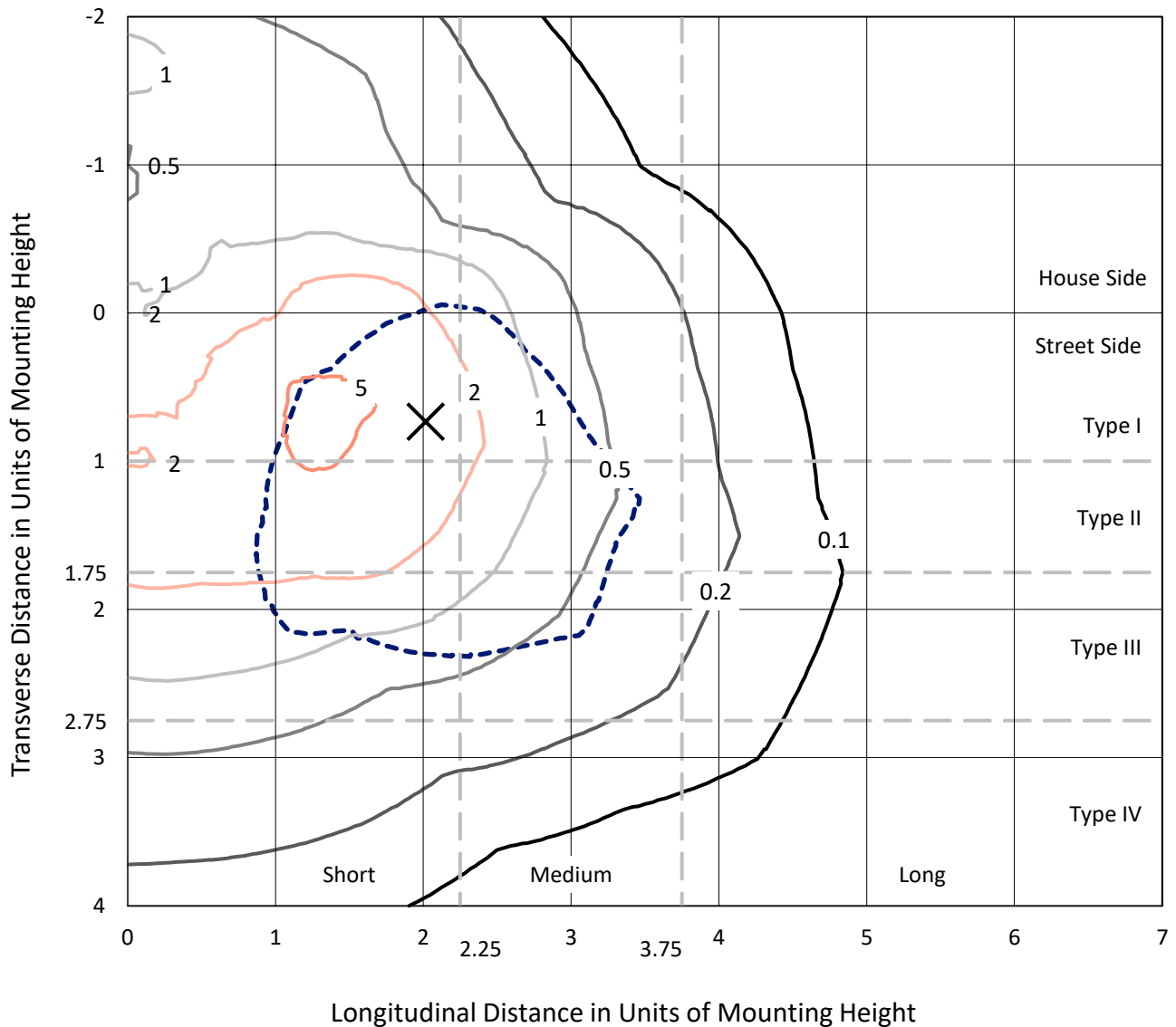
Lumens per Lamp: N/A  
Luminaire Lumens: 13719.3 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U5 - G4

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

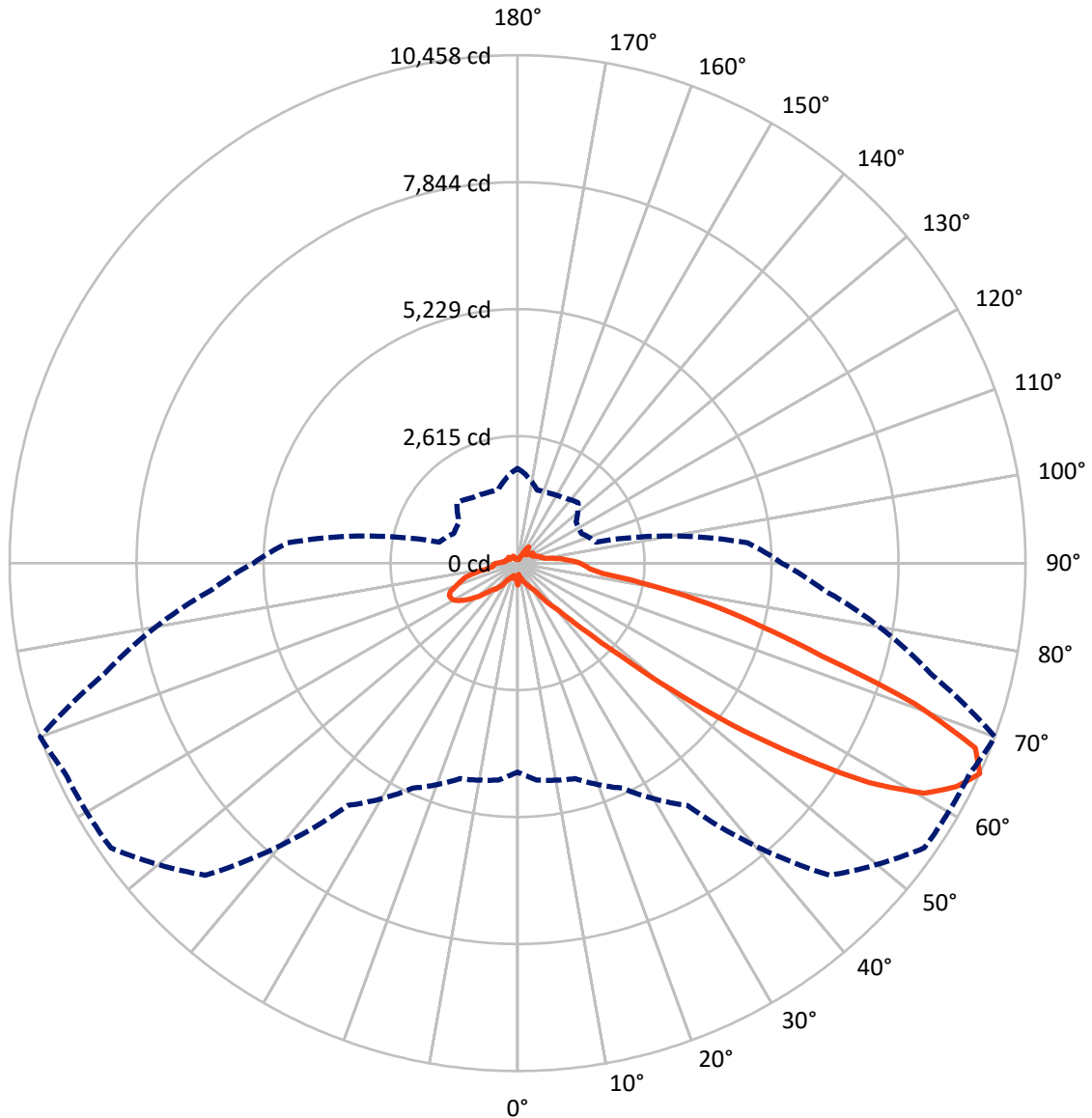
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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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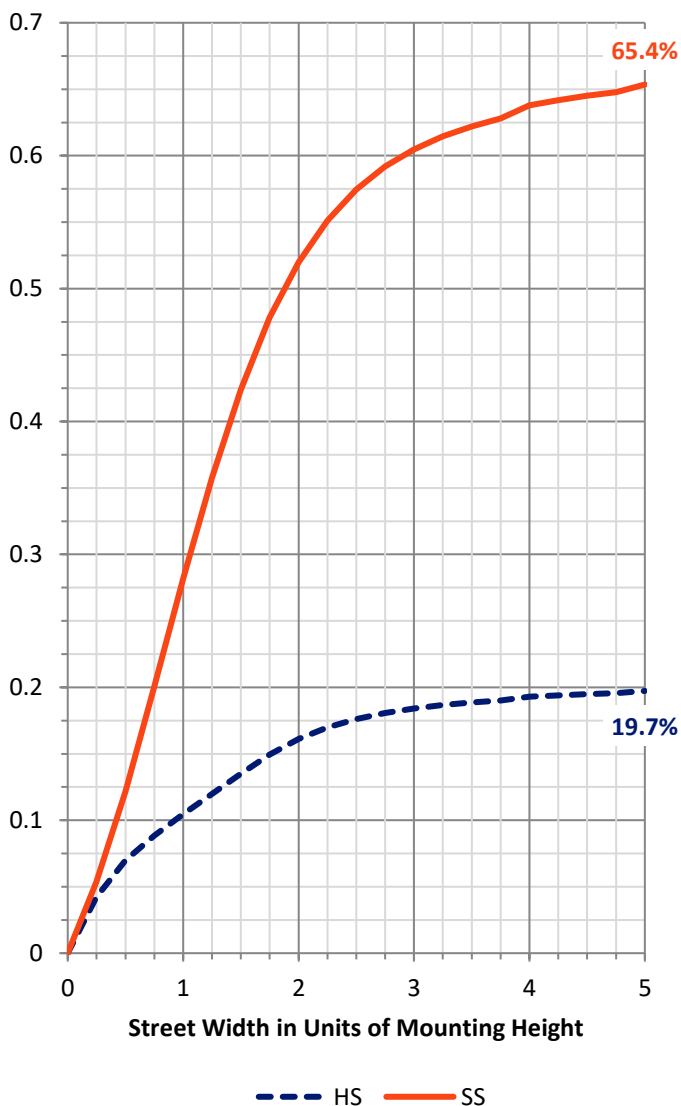
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2813.9	527.1	3341.0
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	9278.6	1099.7	10378.3
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	12092.4	1626.9	13719.3
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.3	0.2
10°-20°	91.7	0.7
20°-30°	185.2	1.3
30°-40°	391.8	2.9
40°-50°	913.6	6.7
50°-60°	2722.7	19.8
60°-70°	4362.9	31.8
70°-80°	2506.3	18.3
80°-90°	888.9	6.5
90°-100°	524.3	3.8
100°-110°	316.7	2.3
110°-120°	238.1	1.7
120°-130°	201.7	1.5
130°-140°	133.9	1.0
140°-150°	125.8	0.9
150°-160°	55.8	0.4
160°-170°	23.1	0.2
170°-180°	7.6	0.1
0°-90°	12092.4	88.1
0°-180°	13719.3	100.0

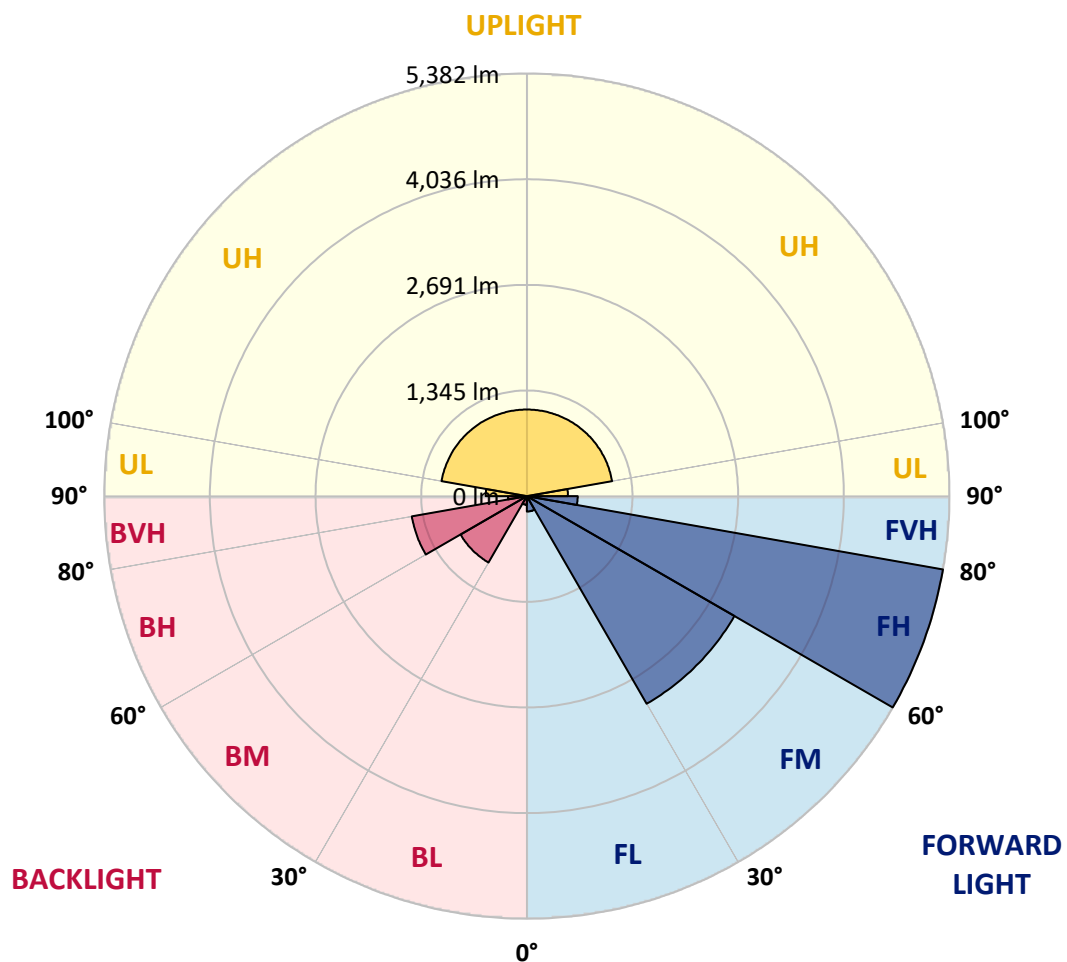


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.6	1.4			
FM (30°-60°)	3052.6	22.3			
FH (60°-80°)	5381.9	39.2			G3/7500
FVH (80°-90°)	647.5	4.7			G4/750
BL (0°-30°)	109.6	0.8	B0/110		
BM (30°-60°)	975.5	7.1	B1/1000		
BH (60°-80°)	1487.3	10.8	B3/2500		G3/2500
BVH (80°-90°)	241.4	1.8			G3/500
UL (90°-100°)	524.3	3.8		U4/1000	
UH (100°-180°)	1102.6	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°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	379.5	376.6	383.8	389.7	396.9	386.8	369.3	386.8	392.6	410.0	423.1
5°	322.8	324.2	331.5	347.5	362.0	359.1	314.1	255.9	238.4	231.2	232.6
7.5°	319.9	318.4	314.1	312.6	321.3	353.3	348.9	306.8	274.8	247.2	219.5
10°	337.3	341.7	346.0	346.0	340.2	319.9	318.4	315.5	303.9	290.8	273.3
12.5°	417.3	423.1	427.5	412.9	394.0	373.7	357.7	331.5	319.9	312.6	299.5
15°	504.5	510.3	503.1	475.4	442.0	404.2	389.7	391.1	375.1	356.2	328.6
17.5°	551.0	548.1	517.6	485.6	459.4	430.4	410.0	396.9	391.1	383.8	356.2
20°	522.0	514.7	495.8	482.7	479.8	463.8	450.7	439.1	431.8	415.8	382.4
22.5°	500.2	500.2	497.3	494.3	511.8	504.5	498.7	482.7	472.5	452.2	402.7
25°	527.8	527.8	529.2	524.9	548.1	548.1	548.1	530.7	517.6	488.5	428.9
27.5°	567.0	565.6	569.9	567.0	587.4	591.8	600.5	587.4	568.5	533.6	458.0
30°	609.2	609.2	613.6	616.5	636.8	647.0	657.2	651.4	628.1	585.9	507.4
32.5°	654.3	652.8	665.9	680.4	692.1	711.0	715.3	729.9	706.6	657.2	580.1
35°	719.7	724.1	759.0	789.5	822.9	834.6	854.9	911.6	888.4	821.5	732.8
37.5°	1041.0	1019.2	1010.5	975.6	971.2	1039.6	1064.3	1118.1	1071.6	981.4	846.2
40°	1103.5	1077.4	1065.7	1032.3	1043.9	1185.0	1160.3	1353.6	1240.2	1096.3	1009.0
42.5°	1039.6	1035.2	1171.9	1198.1	1183.5	1407.4	1359.4	1717.1	1596.4	1262.0	1164.6
45°	1254.8	1243.1	1301.3	1347.8	1384.2	1786.9	1757.8	2134.4	2082.1	1536.8	1440.9
47.5°	1416.1	1404.5	1471.4	1627.0	1839.2	2275.4	2445.5	3014.0	2836.7	2114.0	1896.0
50°	1898.9	1891.6	2071.9	2239.1	2589.5	3233.6	3700.3	4313.9	4053.6	2953.0	2551.7
52.5°	2355.4	2378.7	2589.5	2910.8	3281.6	4444.7	5110.6	5541.0	5538.1	3845.7	3275.8
55°	2682.5	2761.1	3009.7	3589.8	4104.5	5519.2	6417.7	6736.2	7003.7	5131.0	3989.6
57.5°	3317.9	3454.6	3693.0	4267.3	4931.8	6819.0	8101.4	8049.1	8530.3	6464.3	4766.1
60°	3970.7	4130.7	4210.6	4738.4	5610.8	8070.9	9258.8	9136.6	9620.8	7624.5	5583.2
62.5°	4174.3	4331.3	4409.8	4984.1	6100.8	8780.4	9792.4	9840.3	10141.3	8451.8	6067.3
65°	4302.2	4482.5	4595.9	5113.5	6090.6	9090.1	10224.2	10269.3	10458.3	8808.0	6317.4
67.5°	4279.0	4481.1	4626.5	5090.3	5753.3	8832.8	10116.6	9913.0	10166.0	8553.6	6054.3
70°	3816.6	3992.6	4137.9	4495.6	4802.4	7441.3	8752.8	8416.9	8678.6	7146.2	4998.7
72.5°	3118.7	3191.4	3317.9	3486.6	3639.2	5520.7	6676.5	6388.7	6539.9	5360.7	3745.4
75°	2561.9	2547.3	2660.7	2782.9	2734.9	4033.3	5282.2	5019.0	5160.1	4071.1	2987.9
77.5°	1898.9	1891.6	2055.9	2045.7	1973.0	2793.0	4187.4	3996.9	4015.8	3006.8	2237.6
80°	1141.4	1163.2	1323.1	1355.1	1269.3	1752.0	2989.3	2899.2	2764.0	2054.4	1568.8
82.5°	801.1	834.6	918.9	953.8	911.6	1279.5	1980.3	1917.8	1757.8	1490.3	1105.0
85°	817.1	822.9	833.1	836.0	817.1	1148.6	1536.8	1501.9	1491.8	1248.9	911.6
87.5°	817.1	830.2	838.9	837.5	804.0	1075.9	1417.6	1362.4	1375.4	1167.5	881.1
90°	732.8	756.1	754.6	759.0	731.3	972.7	1285.3	1240.2	1257.7	1052.7	801.1
92.5°	599.0	615.0	631.0	661.5	620.8	827.3	1086.1	1043.9	1065.7	895.6	681.9
95°	556.9	571.4	581.6	597.6	556.9	735.7	961.1	910.2	918.9	760.4	577.2
97.5°	450.7	459.4	471.1	474.0	444.9	565.6	731.3	687.7	693.5	590.3	453.6
100°	378.0	385.3	395.5	395.5	376.6	468.2	578.7	555.4	552.5	482.7	383.8
102.5°	357.7	360.6	376.6	373.7	354.8	431.8	523.4	508.9	510.3	447.8	360.6
105°	351.9	351.9	367.8	360.6	344.6	411.5	490.0	485.6	484.2	426.0	346.0
107.5°	346.0	346.0	362.0	354.8	341.7	388.2	460.9	446.4	444.9	405.7	327.1
110°	322.8	327.1	344.6	335.9	325.7	366.4	423.1	412.9	412.9	382.4	312.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	286.4	289.3	305.3	298.1	290.8	325.7	375.1	362.0	363.5	343.1	292.2
115°	267.5	271.9	287.9	277.7	271.9	303.9	347.5	338.8	341.7	322.8	276.3
117.5°	269.0	270.4	282.1	283.5	271.9	298.1	321.3	324.2	328.6	317.0	280.6
120°	327.1	319.9	325.7	318.4	312.6	343.1	370.8	373.7	372.2	350.4	279.2
122.5°	330.0	315.5	331.5	321.3	315.5	348.9	379.5	386.8	379.5	360.6	285.0
125°	263.2	267.5	269.0	271.9	277.7	314.1	330.0	331.5	333.0	327.1	276.3
127.5°	231.2	229.7	222.5	223.9	237.0	269.0	280.6	289.3	283.5	280.6	248.6
130°	221.0	223.9	222.5	222.5	229.7	254.4	263.2	276.3	271.9	266.1	226.8
132.5°	203.6	206.5	219.5	235.5	232.6	241.4	244.3	257.3	258.8	258.8	228.3
135°	193.4	196.3	206.5	226.8	221.0	225.4	223.9	235.5	237.0	238.4	215.2
137.5°	197.7	199.2	193.4	196.3	200.6	219.5	225.4	237.0	237.0	231.2	200.6
140°	207.9	207.9	194.8	190.5	199.2	228.3	239.9	258.8	255.9	245.7	207.9
142.5°	191.9	194.8	202.1	210.8	229.7	309.7	309.7	346.0	357.7	360.6	251.5
145°	250.1	251.5	254.4	258.8	295.2	405.7	369.3	395.5	405.7	415.8	302.4
147.5°	287.9	290.8	287.9	276.3	309.7	347.5	330.0	341.7	353.3	356.2	303.9
150°	225.4	222.5	221.0	219.5	255.9	267.5	253.0	251.5	260.3	267.5	235.5
152.5°	164.3	162.8	161.4	159.9	191.9	184.7	174.5	174.5	177.4	178.8	165.8
155°	145.4	143.9	141.0	142.5	162.8	155.6	146.8	143.9	146.8	145.4	138.1
157.5°	119.2	116.3	116.3	122.1	132.3	123.6	117.8	113.4	114.9	113.4	114.9
160°	98.9	97.4	98.9	106.1	112.0	104.7	98.9	96.0	96.0	98.9	104.7
162.5°	88.7	87.2	88.7	91.6	94.5	87.2	82.9	82.9	84.3	90.1	101.8
165°	77.1	77.1	78.5	80.0	81.4	77.1	75.6	75.6	78.5	87.2	100.3
167.5°	74.2	74.2	74.2	74.2	74.2	72.7	71.2	75.6	78.5	82.9	91.6
170°	72.7	71.2	72.7	72.7	72.7	72.7	72.7	77.1	77.1	78.5	82.9
172.5°	74.2	74.2	74.2	75.6	78.5	80.0	78.5	81.4	80.0	80.0	80.0
175°	75.6	75.6	77.1	78.5	80.0	81.4	82.9	82.9	82.9	84.3	84.3
177.5°	75.6	75.6	77.1	78.5	80.0	77.1	74.2	72.7	71.2	71.2	71.2
180°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1	455.1
2.5°	411.5	375.1	324.2	346.0	412.9	399.8	333.0	292.2	295.2	324.2	327.1
5°	239.9	247.2	280.6	350.4	363.5	301.0	242.8	234.1	282.1	348.9	362.0
7.5°	216.6	216.6	244.3	340.2	382.4	314.1	237.0	213.7	250.1	305.3	314.1
10°	261.7	253.0	255.9	290.8	306.8	251.5	212.3	202.1	222.5	229.7	226.8
12.5°	295.2	301.0	328.6	321.3	251.5	205.0	191.9	190.5	202.1	209.4	207.9
15°	317.0	306.8	286.4	263.2	239.9	213.7	194.8	183.2	170.1	164.3	164.3
17.5°	337.3	317.0	280.6	258.8	235.5	216.6	199.2	181.7	175.9	177.4	177.4
20°	362.0	337.3	303.9	279.2	251.5	225.4	203.6	184.7	180.3	181.7	180.3
22.5°	380.9	359.1	324.2	292.2	263.2	234.1	212.3	193.4	187.6	186.1	186.1
25°	404.2	385.3	348.9	309.7	274.8	247.2	228.3	206.5	196.3	193.4	193.4
27.5°	434.7	418.7	378.0	335.9	295.2	263.2	242.8	219.5	205.0	199.2	197.7
30°	481.3	459.4	414.4	362.0	319.9	286.4	261.7	232.6	215.2	205.0	203.6
32.5°	551.0	523.4	463.8	398.4	347.5	312.6	282.1	245.7	223.9	212.3	210.8
35°	699.4	668.8	593.2	501.6	427.5	356.2	308.2	260.3	232.6	218.1	216.6
37.5°	792.4	737.2	645.6	562.7	472.5	430.4	369.3	305.3	244.3	225.4	222.5
40°	927.6	856.4	741.5	629.6	471.1	469.6	428.9	372.2	287.9	238.4	234.1
42.5°	1027.9	936.3	792.4	667.4	475.4	488.5	453.6	404.2	341.7	277.7	270.4
45°	1233.0	1116.6	888.4	700.8	481.3	510.3	475.4	423.1	367.8	322.8	318.4
47.5°	1616.8	1455.4	1074.5	764.8	546.7	583.0	520.5	459.4	405.7	360.6	350.4
50°	2153.3	1959.9	1299.8	821.5	658.6	741.5	639.7	546.7	482.7	447.8	437.6
52.5°	2782.9	2566.2	1440.9	910.2	793.9	936.3	824.4	715.3	631.0	636.8	631.0
55°	3485.1	3229.2	1564.5	1043.9	966.9	1153.0	1030.9	936.3	891.3	1017.8	1025.0
57.5°	4162.7	3889.3	1641.5	1185.0	1160.3	1403.1	1260.6	1193.7	1211.1	1581.9	1669.1
60°	4809.7	4377.8	1701.1	1317.3	1323.1	1599.3	1490.3	1477.2	1531.0	2006.5	2138.8
62.5°	5183.3	4627.9	1698.2	1403.1	1424.9	1720.0	1624.1	1631.3	1672.0	2076.2	2186.7
65°	5437.8	4754.4	1669.1	1446.7	1468.5	1763.6	1640.1	1583.4	1557.2	1833.4	1951.2
67.5°	5285.1	4510.2	1599.3	1408.9	1438.0	1693.9	1539.7	1397.2	1352.2	1501.9	1571.7
70°	4468.0	3768.6	1424.9	1280.9	1299.8	1429.2	1298.4	1142.8	1097.7	1176.2	1208.2
72.5°	3376.1	2893.4	1278.0	1183.5	1138.4	1182.1	1054.1	891.3	881.1	923.3	929.1
75°	2697.1	2271.1	1164.6	1067.2	946.5	991.6	837.5	663.0	649.9	652.8	638.3
77.5°	2032.6	1689.5	980.0	840.4	716.8	790.9	622.3	458.0	436.2	427.5	411.5
80°	1391.4	1173.3	665.9	562.7	508.9	580.1	443.5	335.9	334.4	331.5	314.1
82.5°	987.2	905.8	543.8	478.4	431.8	456.5	385.3	314.1	306.8	308.2	289.3
85°	863.6	820.0	524.9	484.2	439.1	437.6	367.8	293.7	290.8	292.2	274.8
87.5°	825.8	777.9	513.2	462.4	418.7	396.9	324.2	258.8	266.1	270.4	254.4
90°	740.1	690.6	465.3	412.9	370.8	333.0	274.8	234.1	245.7	248.6	234.1
92.5°	623.7	572.9	362.0	331.5	311.1	305.3	257.3	222.5	231.2	232.6	221.0
95°	527.8	481.3	315.5	292.2	277.7	276.3	232.6	202.1	206.5	205.0	194.8
97.5°	424.6	391.1	276.3	254.4	238.4	229.7	199.2	175.9	181.7	184.7	177.4
100°	362.0	343.1	257.3	238.4	219.5	207.9	181.7	162.8	168.7	174.5	168.7
102.5°	340.2	325.7	253.0	232.6	212.3	197.7	173.0	152.7	155.6	162.8	158.5
105°	322.8	309.7	245.7	223.9	205.0	189.0	168.7	143.9	142.5	149.8	148.3
107.5°	303.9	292.2	241.4	215.2	194.8	180.3	161.4	138.1	132.3	136.7	135.2
110°	293.7	282.1	232.6	205.0	183.2	170.1	152.7	133.8	126.5	127.9	127.9



REPORT NUMBER: P856200

CATALOG NUMBER: FFX-CLB-100-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	273.3	260.3	213.7	187.6	170.1	158.5	141.0	127.9	119.2	122.1	123.6
115°	260.3	242.8	196.3	177.4	158.5	148.3	138.1	126.5	116.3	116.3	117.8
117.5°	269.0	235.5	183.2	168.7	158.5	155.6	152.7	135.2	114.9	113.4	113.4
120°	257.3	237.0	199.2	194.8	184.7	175.9	157.0	133.8	112.0	109.0	109.0
122.5°	251.5	247.2	225.4	210.8	191.9	174.5	146.8	122.1	107.6	104.7	104.7
125°	248.6	244.3	218.1	190.5	165.8	148.3	130.9	114.9	106.1	101.8	101.8
127.5°	228.3	207.9	175.9	159.9	143.9	136.7	122.1	112.0	101.8	96.0	96.0
130°	210.8	191.9	164.3	146.8	133.8	127.9	117.8	107.6	97.4	91.6	90.1
132.5°	207.9	189.0	159.9	138.1	126.5	120.7	114.9	103.2	91.6	85.8	84.3
135°	193.4	171.6	142.5	130.9	123.6	119.2	114.9	100.3	88.7	82.9	82.9
137.5°	178.8	157.0	135.2	129.4	123.6	119.2	106.1	91.6	82.9	78.5	78.5
140°	180.3	155.6	138.1	133.8	125.0	112.0	100.3	90.1	82.9	77.1	75.6
142.5°	191.9	161.4	139.6	126.5	120.7	113.4	109.0	97.4	82.9	72.7	69.8
145°	210.8	174.5	157.0	151.2	141.0	127.9	112.0	90.1	75.6	66.9	65.4
147.5°	232.6	196.3	175.9	159.9	139.6	117.8	96.0	78.5	66.9	64.0	62.5
150°	202.1	167.2	151.2	129.4	112.0	94.5	78.5	69.8	64.0	62.5	62.5
152.5°	152.7	125.0	112.0	101.8	91.6	82.9	74.2	68.3	64.0	61.1	61.1
155°	132.3	117.8	104.7	94.5	84.3	75.6	68.3	65.4	61.1	61.1	59.6
157.5°	116.3	109.0	91.6	82.9	75.6	71.2	68.3	64.0	62.5	61.1	61.1
160°	106.1	101.8	84.3	77.1	72.7	69.8	69.8	66.9	62.5	61.1	61.1
162.5°	103.2	98.9	81.4	74.2	69.8	71.2	74.2	72.7	66.9	64.0	64.0
165°	101.8	98.9	82.9	72.7	69.8	71.2	78.5	80.0	72.7	68.3	66.9
167.5°	93.1	91.6	87.2	80.0	75.6	75.6	80.0	81.4	78.5	78.5	77.1
170°	84.3	84.3	85.8	87.2	84.3	80.0	77.1	77.1	81.4	85.8	87.2
172.5°	81.4	82.9	85.8	90.1	90.1	84.3	80.0	78.5	82.9	88.7	90.1
175°	85.8	87.2	88.7	88.7	85.8	84.3	82.9	81.4	84.3	90.1	91.6
177.5°	71.2	71.2	72.7	72.7	71.2	72.7	71.2	68.3	68.3	68.3	68.3
180°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

Test Date: 07/12/2024

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.

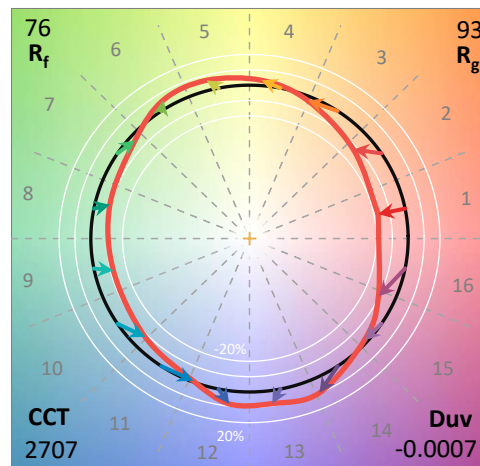
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-3  
 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-100-727-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 2707  
 CIE u': 0.2624  
 CIE v': 0.5261  
 Duv: -0.0007  
 CIE x: 0.4580  
 CIE y: 0.4082  
 CIE z: 0.1338  
 Peak Wavelength (nm): 599  
 Dominant Wavelength (nm): 584  
 Purity: 59.99901  
 Rf: 75.5  
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



**Test Conditions**

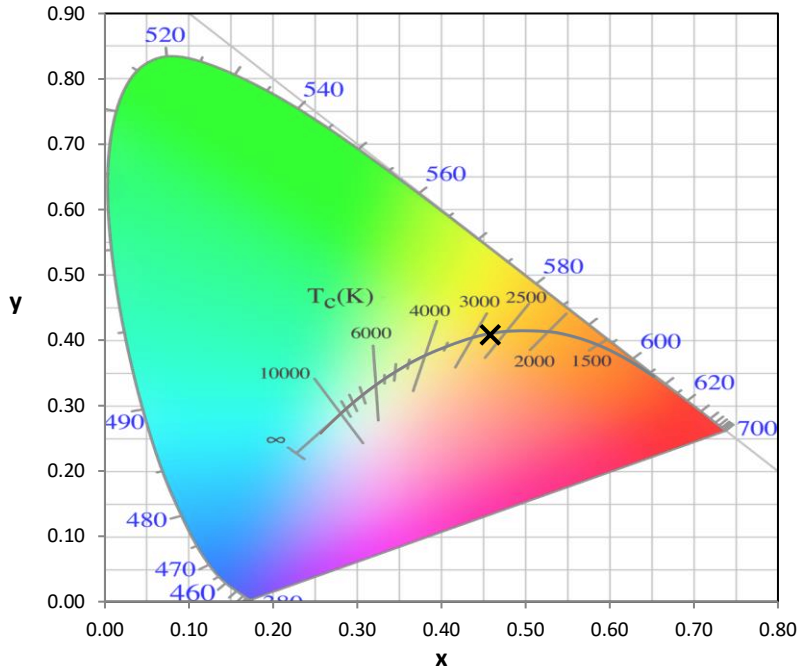
Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

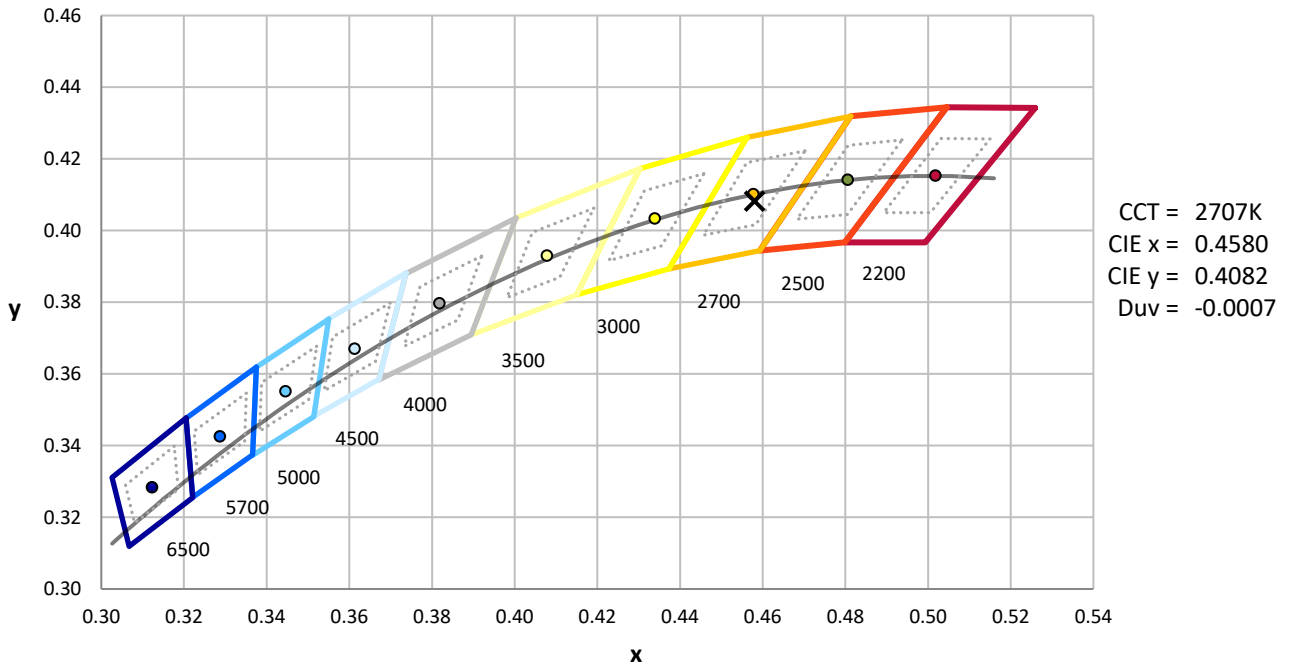
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



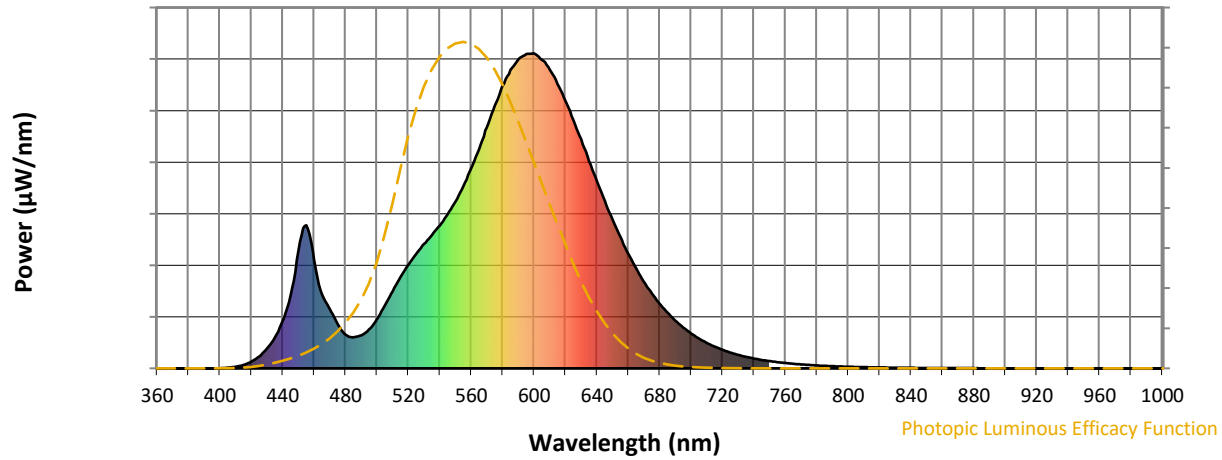
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

**Photopic Flux vs. Wavelength**

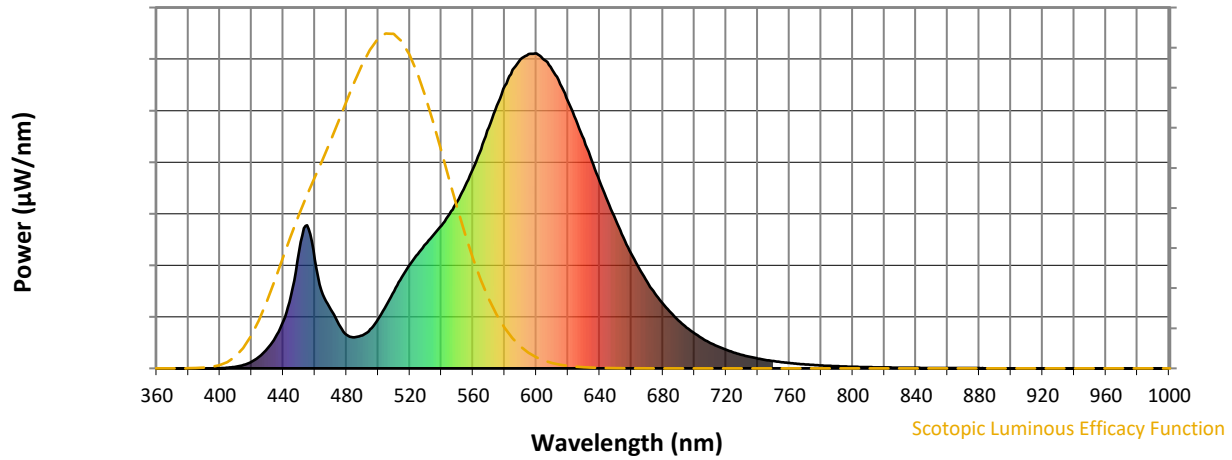


**Photopic Lumens: NR**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

REPORT NUMBER: SP1-2406-133-3

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

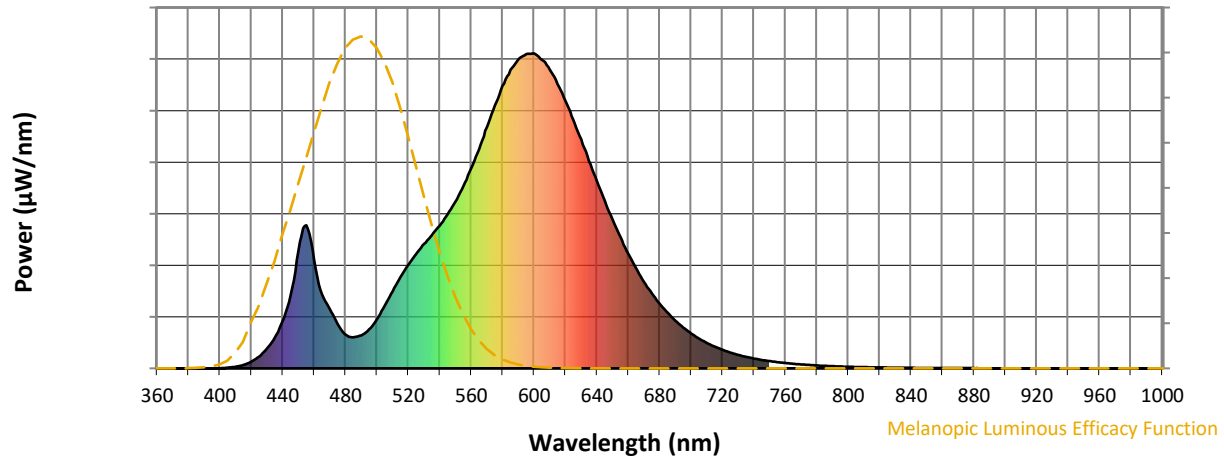
**S/P: 1.12**

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			



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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

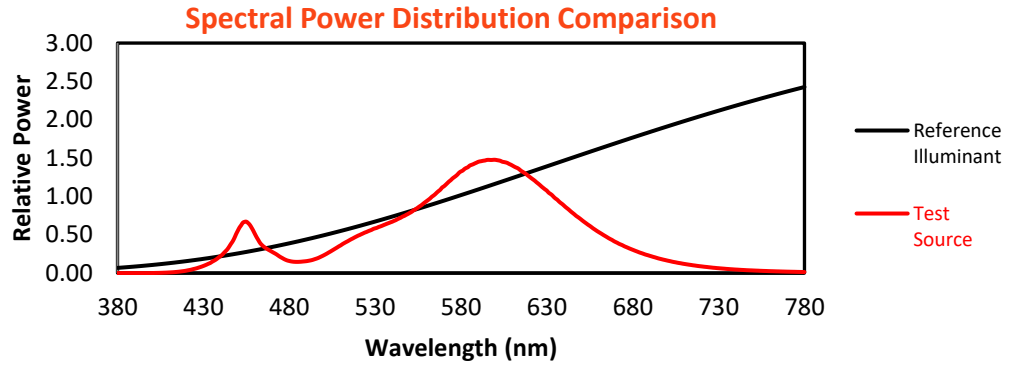
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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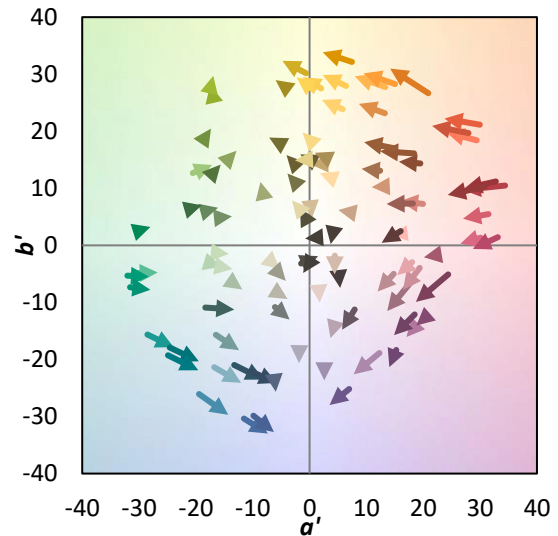
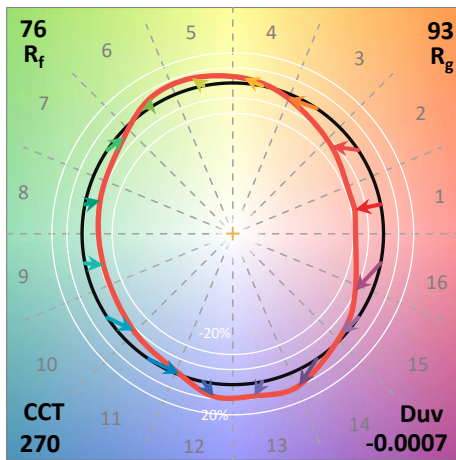
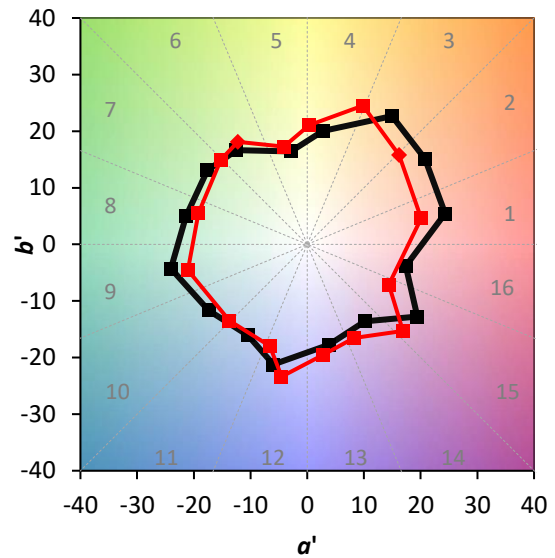
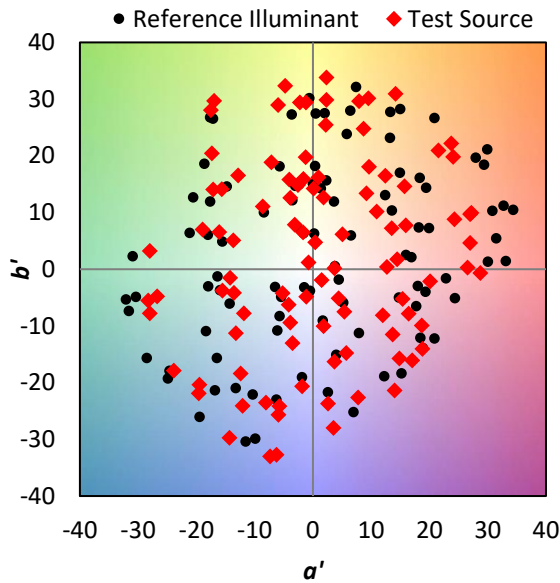
TM-30-18

**Summary**

$R_f = 75.5$   
 $R_g = 92.5$   
 CIE  $R_a = 71.3$   
 $R_9 = -34.9$



**Color Vector Graphics**

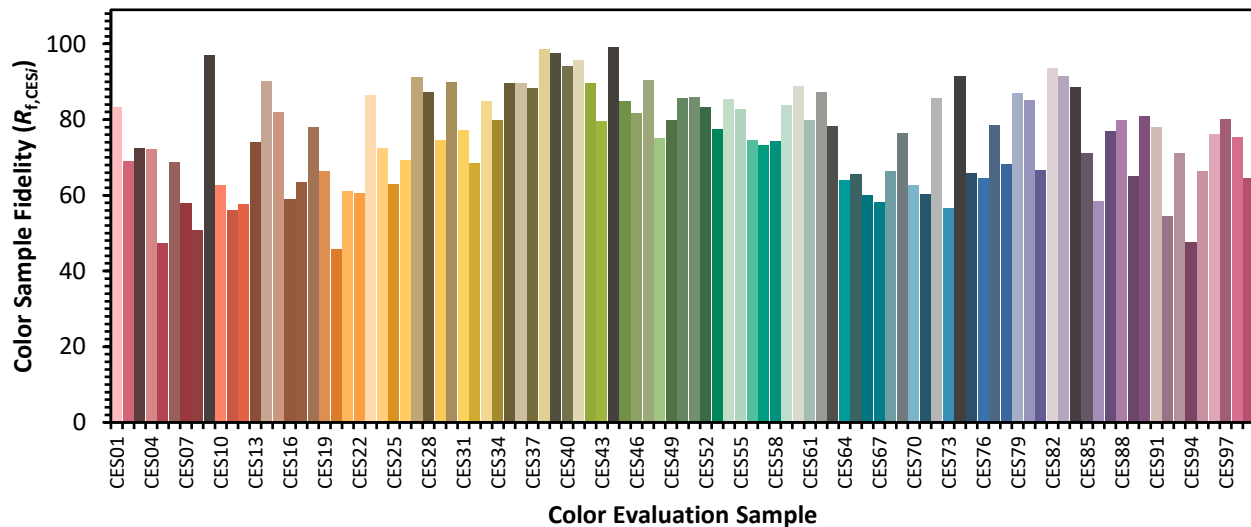


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TM-30-18

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

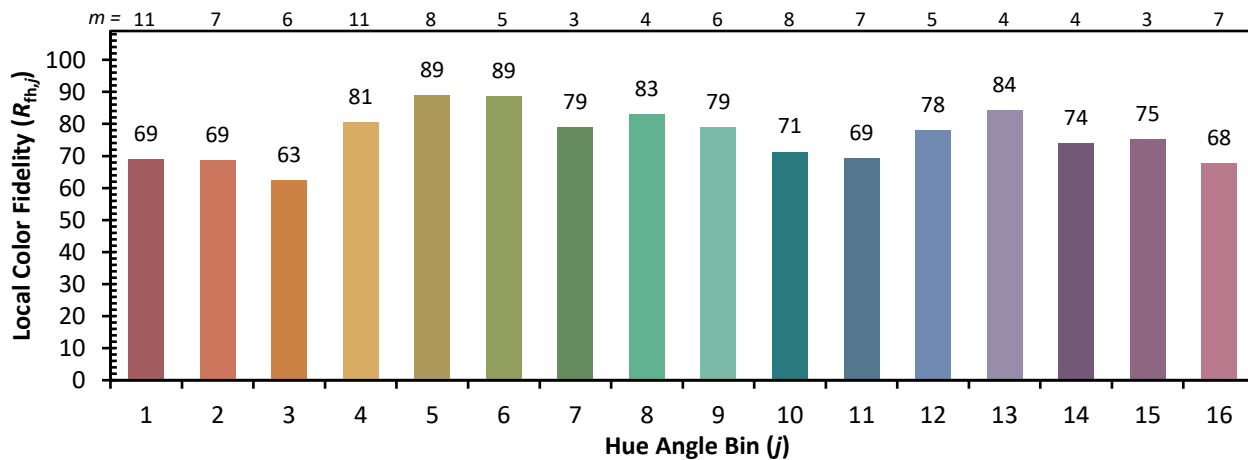
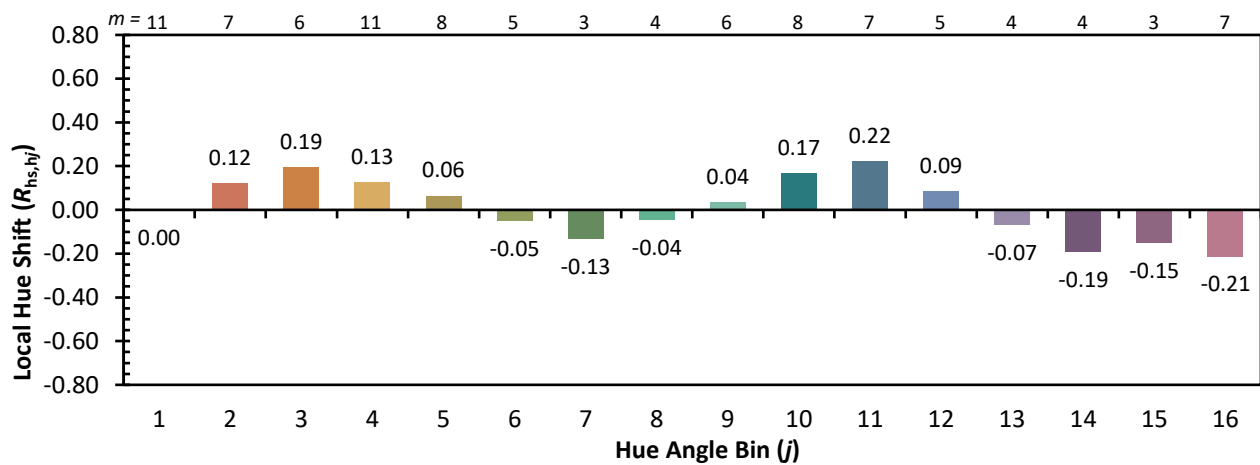
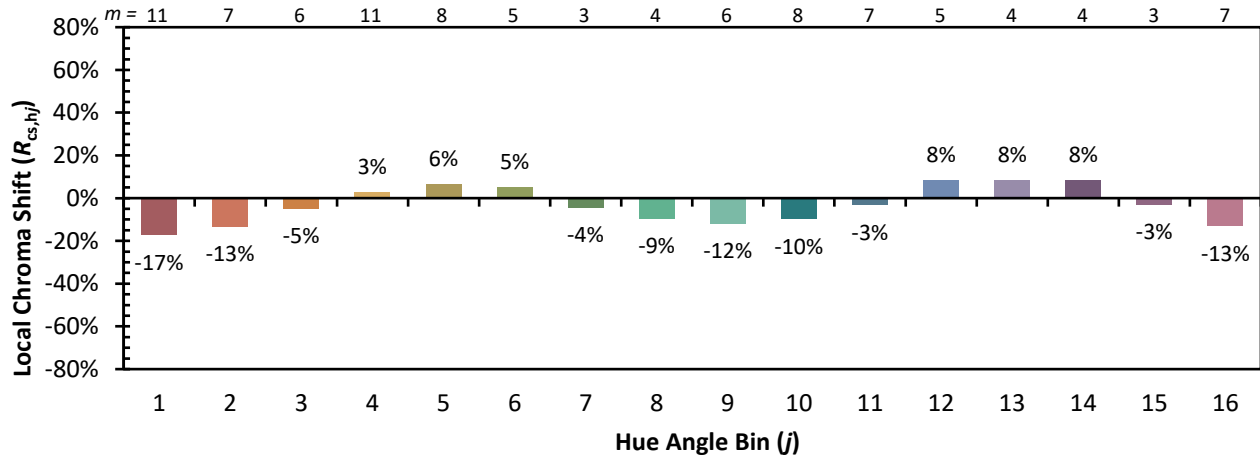
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



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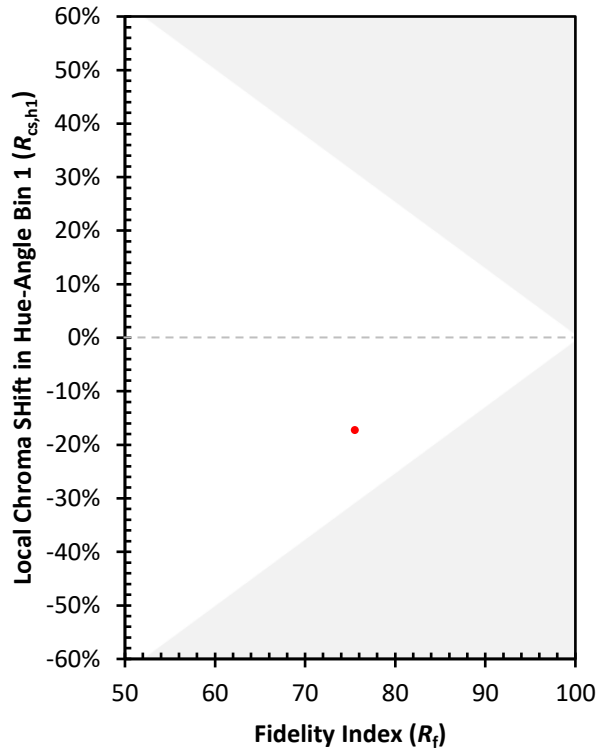
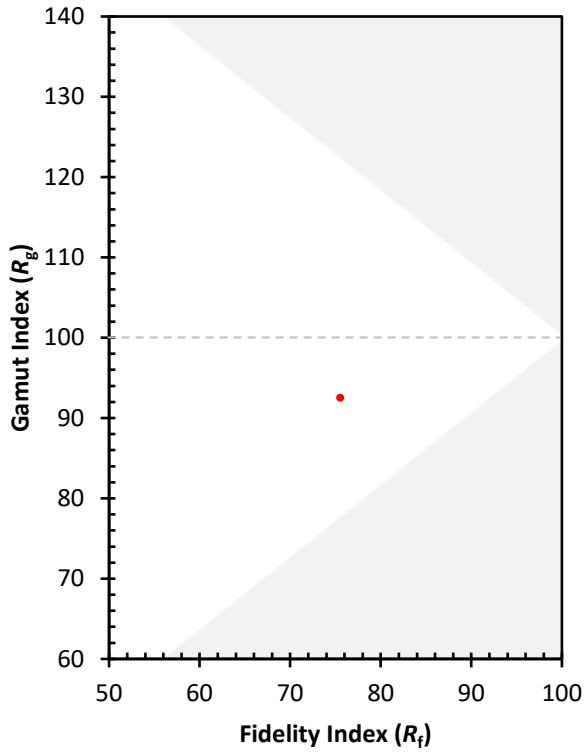
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)