

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: P856207

Luminaire Tested: **FFX-CLB-30-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856207  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-727-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**

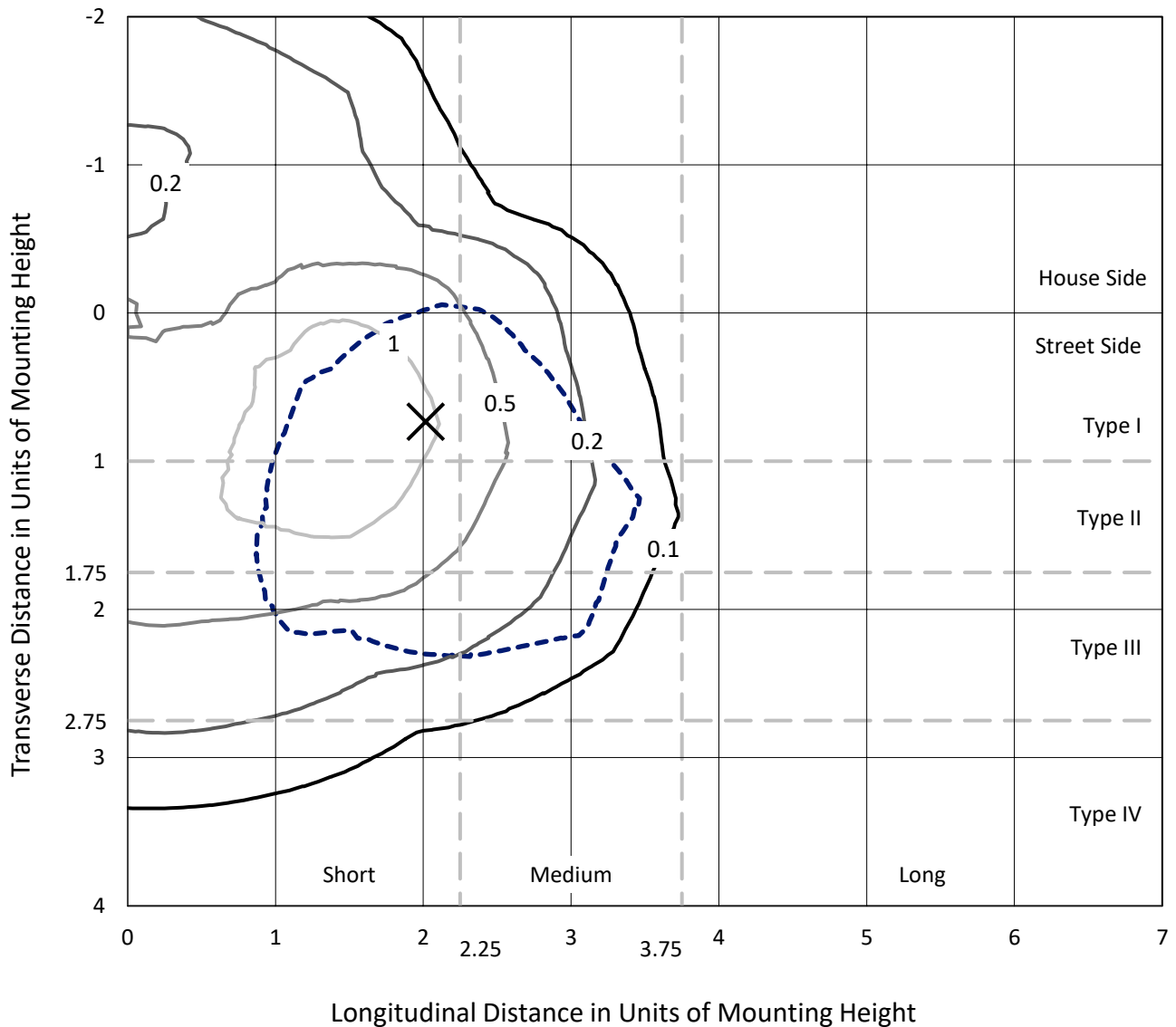
Lumens per Lamp: N/A  
Luminaire Lumens: 4449.8 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B1 - U3 - G2

Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 10.6%%  
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

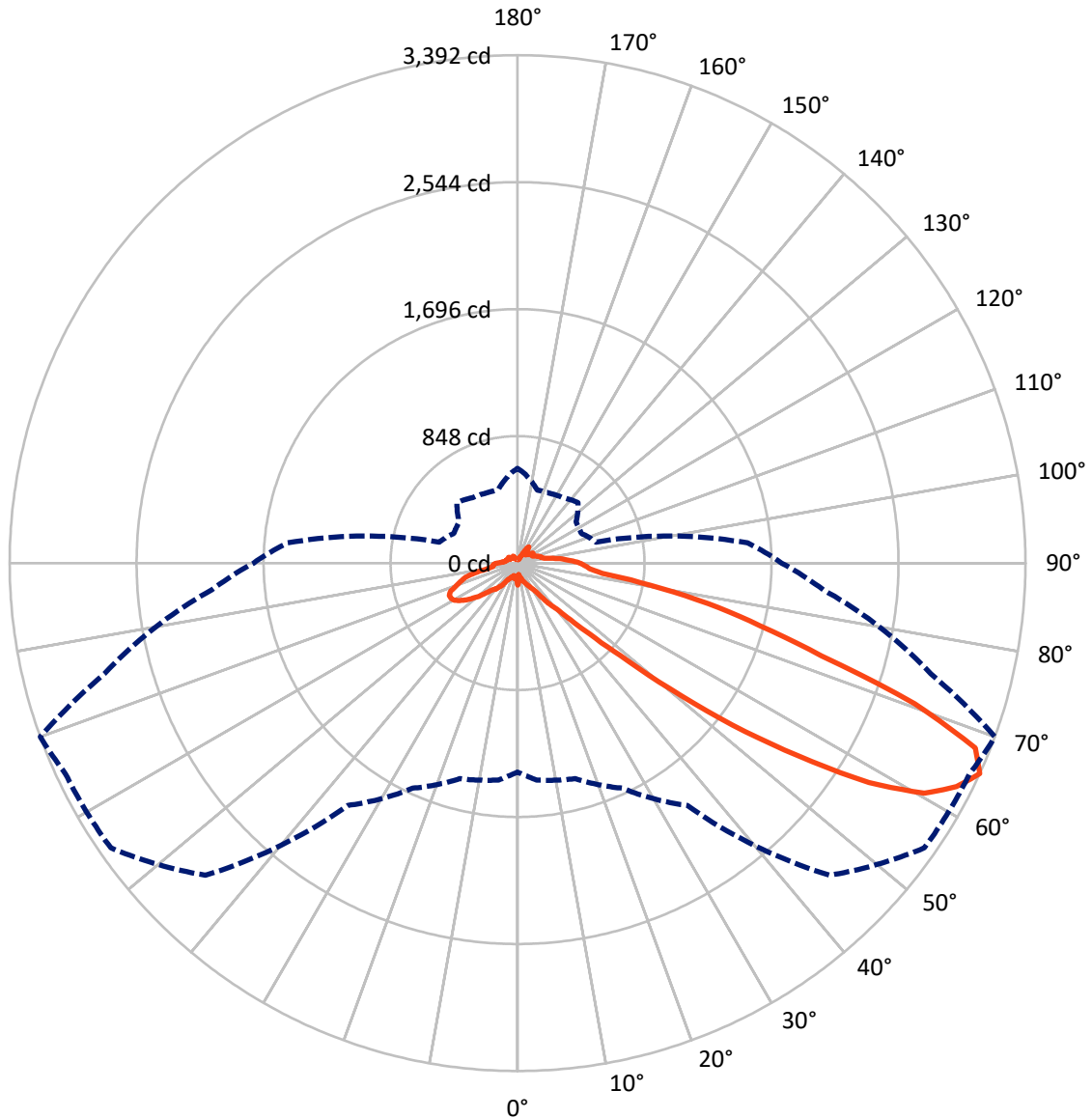
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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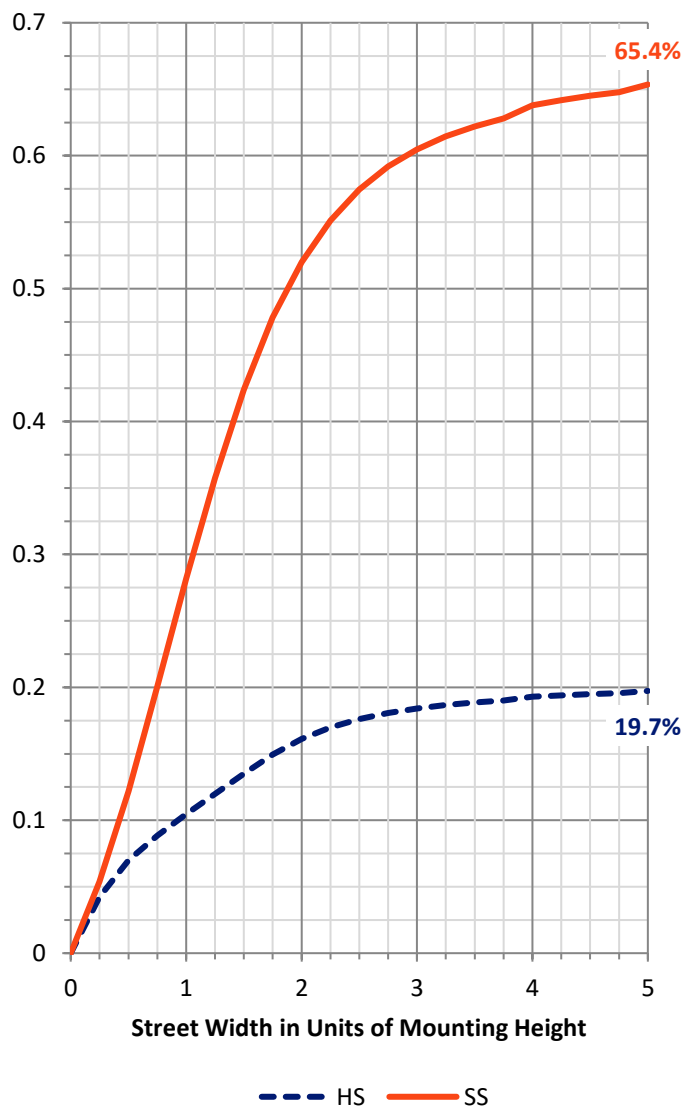
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	912.7	171.0	1083.6
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	3009.5	356.7	3366.2
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	3922.1	527.7	4449.8
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.5	0.2
10°-20°	29.8	0.7
20°-30°	60.1	1.3
30°-40°	127.1	2.9
40°-50°	296.3	6.7
50°-60°	883.1	19.8
60°-70°	1415.1	31.8
70°-80°	812.9	18.3
80°-90°	288.3	6.5
90°-100°	170.0	3.8
100°-110°	102.7	2.3
110°-120°	77.2	1.7
120°-130°	65.4	1.5
130°-140°	43.4	1.0
140°-150°	40.8	0.9
150°-160°	18.1	0.4
160°-170°	7.5	0.2
170°-180°	2.5	0.1
0°-90°	3922.1	88.1
0°-180°	4449.8	100.0



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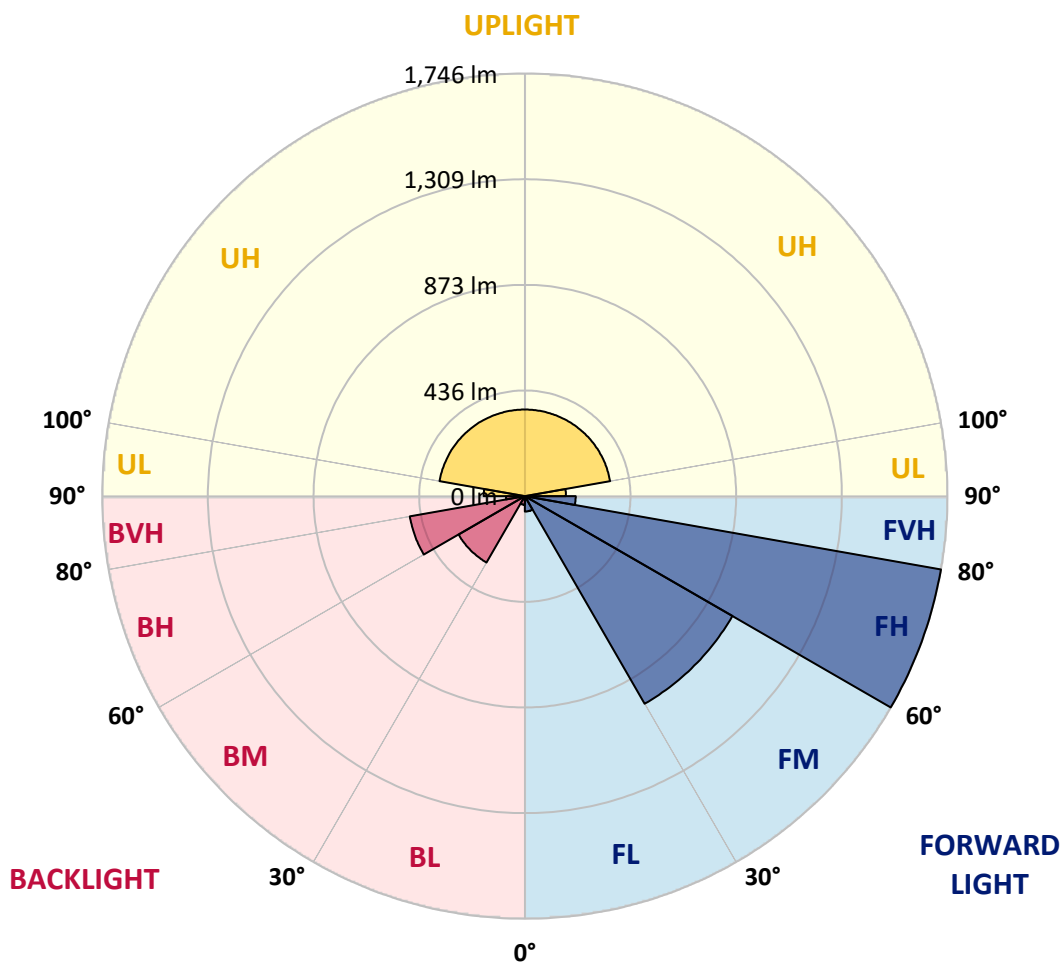
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.8	1.4			
FM (30°-60°)	990.1	22.3			
FH (60°-80°)	1745.6	39.2			G1/1800
FVH (80°-90°)	210.0	4.7			G2/225
BL (0°-30°)	35.6	0.8	B0/110		
BM (30°-60°)	316.4	7.1	B1/1000		
BH (60°-80°)	482.4	10.8	B1/500		G1/500
BVH (80°-90°)	78.3	1.8			G1/100
UL (90°-100°)	170.0	3.8		U3/500	
UH (100°-180°)	357.6	8.0		U3/500	

**BUG Rating: B1-U3-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6
2.5°	123.1	122.1	124.5	126.4	128.7	125.4	119.8	125.4	127.3	133.0	137.2
5°	104.7	105.2	107.5	112.7	117.4	116.5	101.9	83.0	77.3	75.0	75.5
7.5°	103.7	103.3	101.9	101.4	104.2	114.6	113.2	99.5	89.1	80.2	71.2
10°	109.4	110.8	112.2	112.2	110.4	103.7	103.3	102.3	98.6	94.3	88.7
12.5°	135.3	137.2	138.6	133.9	127.8	121.2	116.0	107.5	103.7	101.4	97.1
15°	163.6	165.5	163.2	154.2	143.4	131.1	126.4	126.9	121.7	115.5	106.6
17.5°	178.7	177.8	167.9	157.5	149.0	139.6	133.0	128.7	126.9	124.5	115.5
20°	169.3	166.9	160.8	156.6	155.6	150.4	146.2	142.4	140.1	134.9	124.0
22.5°	162.2	162.2	161.3	160.3	166.0	163.6	161.8	156.6	153.3	146.7	130.6
25°	171.2	171.2	171.7	170.2	177.8	177.8	177.8	172.1	167.9	158.5	139.1
27.5°	183.9	183.4	184.9	183.9	190.5	191.9	194.8	190.5	184.4	173.1	148.5
30°	197.6	197.6	199.0	200.0	206.6	209.9	213.2	211.3	203.7	190.0	164.6
32.5°	212.2	211.7	216.0	220.7	224.5	230.6	232.0	236.7	229.2	213.2	188.2
35°	233.4	234.8	246.2	256.1	266.9	270.7	277.3	295.7	288.1	266.4	237.7
37.5°	337.7	330.6	327.8	316.4	315.0	337.2	345.2	362.6	347.6	318.3	274.5
40°	357.9	349.4	345.7	334.8	338.6	384.3	376.3	439.0	402.3	355.6	327.3
42.5°	337.2	335.8	380.1	388.6	383.9	456.5	440.9	556.9	517.8	409.3	377.7
45°	407.0	403.2	422.1	437.2	448.9	579.6	570.1	692.3	675.3	498.5	467.3
47.5°	459.3	455.6	477.2	527.7	596.6	738.0	793.2	977.6	920.1	685.7	614.9
50°	615.9	613.5	672.0	726.2	839.9	1048.8	1200.2	1399.2	1314.8	957.8	827.6
52.5°	764.0	771.5	839.9	944.1	1064.4	1441.6	1657.6	1797.2	1796.3	1247.3	1062.5
55°	870.1	895.5	976.2	1164.3	1331.3	1790.1	2081.6	2184.9	2271.6	1664.2	1294.0
57.5°	1076.2	1120.5	1197.8	1384.1	1599.6	2211.7	2627.7	2610.7	2766.8	2096.7	1545.9
60°	1287.9	1339.8	1365.7	1536.9	1819.8	2617.8	3003.0	2963.4	3120.5	2473.0	1810.9
62.5°	1353.9	1404.8	1430.3	1616.6	1978.8	2847.9	3176.1	3191.7	3289.3	2741.3	1967.9
65°	1395.4	1453.9	1490.7	1658.6	1975.5	2948.3	3316.2	3330.8	3392.1	2856.9	2049.0
67.5°	1387.9	1453.4	1500.6	1651.0	1866.1	2864.9	3281.3	3215.3	3297.3	2774.3	1963.7
70°	1237.9	1295.0	1342.1	1458.1	1557.6	2413.6	2838.9	2730.0	2814.9	2317.8	1621.3
72.5°	1011.5	1035.1	1076.2	1130.9	1180.4	1790.6	2165.5	2072.1	2121.2	1738.7	1214.8
75°	830.9	826.2	863.0	902.6	887.1	1308.2	1713.3	1627.9	1673.7	1320.4	969.1
77.5°	615.9	613.5	666.8	663.5	639.9	905.9	1358.2	1296.4	1302.5	975.2	725.8
80°	370.2	377.3	429.1	439.5	411.7	568.3	969.6	940.3	896.5	666.3	508.8
82.5°	259.8	270.7	298.0	309.4	295.7	415.0	642.3	622.0	570.1	483.4	358.4
85°	265.0	266.9	270.2	271.2	265.0	372.6	498.5	487.1	483.8	405.1	295.7
87.5°	265.0	269.3	272.1	271.6	260.8	349.0	459.8	441.9	446.1	378.7	285.8
90°	237.7	245.2	244.8	246.2	237.2	315.5	416.9	402.3	407.9	341.4	259.8
92.5°	194.3	199.5	204.7	214.6	201.4	268.3	352.3	338.6	345.7	290.5	221.2
95°	180.6	185.3	188.6	193.8	180.6	238.6	311.7	295.2	298.0	246.6	187.2
97.5°	146.2	149.0	152.8	153.7	144.3	183.4	237.2	223.1	224.9	191.5	147.1
100°	122.6	125.0	128.3	128.3	122.1	151.9	187.7	180.1	179.2	156.6	124.5
102.5°	116.0	117.0	122.1	121.2	115.1	140.1	169.8	165.1	165.5	145.2	117.0
105°	114.1	114.1	119.3	117.0	111.8	133.5	158.9	157.5	157.0	138.2	112.2
107.5°	112.2	112.2	117.4	115.1	110.8	125.9	149.5	144.8	144.3	131.6	106.1
110°	104.7	106.1	111.8	108.9	105.6	118.8	137.2	133.9	133.9	124.0	101.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	92.9	93.8	99.0	96.7	94.3	105.6	121.7	117.4	117.9	111.3	94.8
115°	86.8	88.2	93.4	90.1	88.2	98.6	112.7	109.9	110.8	104.7	89.6
117.5°	87.2	87.7	91.5	92.0	88.2	96.7	104.2	105.2	106.6	102.8	91.0
120°	106.1	103.7	105.6	103.3	101.4	111.3	120.3	121.2	120.7	113.7	90.5
122.5°	107.0	102.3	107.5	104.2	102.3	113.2	123.1	125.4	123.1	117.0	92.4
125°	85.4	86.8	87.2	88.2	90.1	101.9	107.0	107.5	108.0	106.1	89.6
127.5°	75.0	74.5	72.2	72.6	76.9	87.2	91.0	93.8	92.0	91.0	80.6
130°	71.7	72.6	72.2	72.2	74.5	82.5	85.4	89.6	88.2	86.3	73.6
132.5°	66.0	67.0	71.2	76.4	75.5	78.3	79.2	83.5	83.9	83.9	74.0
135°	62.7	63.7	67.0	73.6	71.7	73.1	72.6	76.4	76.9	77.3	69.8
137.5°	64.1	64.6	62.7	63.7	65.1	71.2	73.1	76.9	76.9	75.0	65.1
140°	67.4	67.4	63.2	61.8	64.6	74.0	77.8	83.9	83.0	79.7	67.4
142.5°	62.2	63.2	65.6	68.4	74.5	100.4	100.4	112.2	116.0	117.0	81.6
145°	81.1	81.6	82.5	83.9	95.7	131.6	119.8	128.3	131.6	134.9	98.1
147.5°	93.4	94.3	93.4	89.6	100.4	112.7	107.0	110.8	114.6	115.5	98.6
150°	73.1	72.2	71.7	71.2	83.0	86.8	82.1	81.6	84.4	86.8	76.4
152.5°	53.3	52.8	52.3	51.9	62.2	59.9	56.6	56.6	57.5	58.0	53.8
155°	47.2	46.7	45.7	46.2	52.8	50.5	47.6	46.7	47.6	47.2	44.8
157.5°	38.7	37.7	37.7	39.6	42.9	40.1	38.2	36.8	37.3	36.8	37.3
160°	32.1	31.6	32.1	34.4	36.3	34.0	32.1	31.1	31.1	32.1	34.0
162.5°	28.8	28.3	28.8	29.7	30.7	28.3	26.9	26.9	27.4	29.2	33.0
165°	25.0	25.0	25.5	25.9	26.4	25.0	24.5	24.5	25.5	28.3	32.5
167.5°	24.1	24.1	24.1	24.1	24.1	23.6	23.1	24.5	25.5	26.9	29.7
170°	23.6	23.1	23.6	23.6	23.6	23.6	23.6	25.0	25.0	25.5	26.9
172.5°	24.1	24.1	24.1	24.5	25.5	25.9	25.5	26.4	25.9	25.9	25.9
175°	24.5	24.5	25.0	25.5	25.9	26.4	26.9	26.9	26.9	27.4	27.4
177.5°	24.5	24.5	25.0	25.5	25.9	25.0	24.1	23.6	23.1	23.1	23.1
180°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6	147.6
2.5°	133.5	121.7	105.2	112.2	133.9	129.7	108.0	94.8	95.7	105.2	106.1
5°	77.8	80.2	91.0	113.7	117.9	97.6	78.8	75.9	91.5	113.2	117.4
7.5°	70.3	70.3	79.2	110.4	124.0	101.9	76.9	69.3	81.1	99.0	101.9
10°	84.9	82.1	83.0	94.3	99.5	81.6	68.9	65.6	72.2	74.5	73.6
12.5°	95.7	97.6	106.6	104.2	81.6	66.5	62.2	61.8	65.6	67.9	67.4
15°	102.8	99.5	92.9	85.4	77.8	69.3	63.2	59.4	55.2	53.3	53.3
17.5°	109.4	102.8	91.0	83.9	76.4	70.3	64.6	58.9	57.1	57.5	57.5
20°	117.4	109.4	98.6	90.5	81.6	73.1	66.0	59.9	58.5	58.9	58.5
22.5°	123.6	116.5	105.2	94.8	85.4	75.9	68.9	62.7	60.8	60.4	60.4
25°	131.1	125.0	113.2	100.4	89.1	80.2	74.0	67.0	63.7	62.7	62.7
27.5°	141.0	135.8	122.6	108.9	95.7	85.4	78.8	71.2	66.5	64.6	64.1
30°	156.1	149.0	134.4	117.4	103.7	92.9	84.9	75.5	69.8	66.5	66.0
32.5°	178.7	169.8	150.4	129.2	112.7	101.4	91.5	79.7	72.6	68.9	68.4
35°	226.8	216.9	192.4	162.7	138.6	115.5	100.0	84.4	75.5	70.7	70.3
37.5°	257.0	239.1	209.4	182.5	153.3	139.6	119.8	99.0	79.2	73.1	72.2
40°	300.9	277.8	240.5	204.2	152.8	152.3	139.1	120.7	93.4	77.3	75.9
42.5°	333.4	303.7	257.0	216.5	154.2	158.5	147.1	131.1	110.8	90.1	87.7
45°	399.9	362.2	288.1	227.3	156.1	165.5	154.2	137.2	119.3	104.7	103.3
47.5°	524.4	472.1	348.5	248.1	177.3	189.1	168.8	149.0	131.6	117.0	113.7
50°	698.4	635.7	421.6	266.4	213.6	240.5	207.5	177.3	156.6	145.2	141.9
52.5°	902.6	832.3	467.3	295.2	257.5	303.7	267.4	232.0	204.7	206.6	204.7
55°	1130.4	1047.4	507.4	338.6	313.6	374.0	334.4	303.7	289.1	330.1	332.5
57.5°	1350.1	1261.5	532.4	384.3	376.3	455.1	408.9	387.2	392.8	513.1	541.4
60°	1560.0	1419.9	551.8	427.3	429.1	518.7	483.4	479.1	496.6	650.8	693.7
62.5°	1681.2	1501.1	550.8	455.1	462.2	557.9	526.8	529.1	542.3	673.4	709.3
65°	1763.7	1542.1	541.4	469.2	476.3	572.0	531.9	513.6	505.1	594.7	632.9
67.5°	1714.2	1462.9	518.7	457.0	466.4	549.4	499.4	453.2	438.6	487.1	509.8
70°	1449.2	1222.3	462.2	415.5	421.6	463.6	421.1	370.7	356.0	381.5	391.9
72.5°	1095.0	938.5	414.5	383.9	369.3	383.4	341.9	289.1	285.8	299.5	301.3
75°	874.8	736.6	377.7	346.1	307.0	321.6	271.6	215.0	210.8	211.7	207.0
77.5°	659.3	548.0	317.8	272.6	232.5	256.5	201.8	148.5	141.5	138.6	133.5
80°	451.3	380.6	216.0	182.5	165.1	188.2	143.8	108.9	108.5	107.5	101.9
82.5°	320.2	293.8	176.4	155.2	140.1	148.1	125.0	101.9	99.5	100.0	93.8
85°	280.1	266.0	170.2	157.0	142.4	141.9	119.3	95.3	94.3	94.8	89.1
87.5°	267.9	252.3	166.5	150.0	135.8	128.7	105.2	83.9	86.3	87.7	82.5
90°	240.0	224.0	150.9	133.9	120.3	108.0	89.1	75.9	79.7	80.6	75.9
92.5°	202.3	185.8	117.4	107.5	100.9	99.0	83.5	72.2	75.0	75.5	71.7
95°	171.2	156.1	102.3	94.8	90.1	89.6	75.5	65.6	67.0	66.5	63.2
97.5°	137.7	126.9	89.6	82.5	77.3	74.5	64.6	57.1	58.9	59.9	57.5
100°	117.4	111.3	83.5	77.3	71.2	67.4	58.9	52.8	54.7	56.6	54.7
102.5°	110.4	105.6	82.1	75.5	68.9	64.1	56.1	49.5	50.5	52.8	51.4
105°	104.7	100.4	79.7	72.6	66.5	61.3	54.7	46.7	46.2	48.6	48.1
107.5°	98.6	94.8	78.3	69.8	63.2	58.5	52.3	44.8	42.9	44.3	43.9
110°	95.3	91.5	75.5	66.5	59.4	55.2	49.5	43.4	41.0	41.5	41.5



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CATALOG NUMBER: FFX-CLB-30-727-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	88.7	84.4	69.3	60.8	55.2	51.4	45.7	41.5	38.7	39.6	40.1
115°	84.4	78.8	63.7	57.5	51.4	48.1	44.8	41.0	37.7	37.7	38.2
117.5°	87.2	76.4	59.4	54.7	51.4	50.5	49.5	43.9	37.3	36.8	36.8
120°	83.5	76.9	64.6	63.2	59.9	57.1	50.9	43.4	36.3	35.4	35.4
122.5°	81.6	80.2	73.1	68.4	62.2	56.6	47.6	39.6	34.9	34.0	34.0
125°	80.6	79.2	70.7	61.8	53.8	48.1	42.4	37.3	34.4	33.0	33.0
127.5°	74.0	67.4	57.1	51.9	46.7	44.3	39.6	36.3	33.0	31.1	31.1
130°	68.4	62.2	53.3	47.6	43.4	41.5	38.2	34.9	31.6	29.7	29.2
132.5°	67.4	61.3	51.9	44.8	41.0	39.1	37.3	33.5	29.7	27.8	27.4
135°	62.7	55.6	46.2	42.4	40.1	38.7	37.3	32.5	28.8	26.9	26.9
137.5°	58.0	50.9	43.9	42.0	40.1	38.7	34.4	29.7	26.9	25.5	25.5
140°	58.5	50.5	44.8	43.4	40.6	36.3	32.5	29.2	26.9	25.0	24.5
142.5°	62.2	52.3	45.3	41.0	39.1	36.8	35.4	31.6	26.9	23.6	22.6
145°	68.4	56.6	50.9	49.0	45.7	41.5	36.3	29.2	24.5	21.7	21.2
147.5°	75.5	63.7	57.1	51.9	45.3	38.2	31.1	25.5	21.7	20.7	20.3
150°	65.6	54.2	49.0	42.0	36.3	30.7	25.5	22.6	20.7	20.3	20.3
152.5°	49.5	40.6	36.3	33.0	29.7	26.9	24.1	22.2	20.7	19.8	19.8
155°	42.9	38.2	34.0	30.7	27.4	24.5	22.2	21.2	19.8	19.8	19.3
157.5°	37.7	35.4	29.7	26.9	24.5	23.1	22.2	20.7	20.3	19.8	19.8
160°	34.4	33.0	27.4	25.0	23.6	22.6	22.6	21.7	20.3	19.8	19.8
162.5°	33.5	32.1	26.4	24.1	22.6	23.1	24.1	23.6	21.7	20.7	20.7
165°	33.0	32.1	26.9	23.6	22.6	23.1	25.5	25.9	23.6	22.2	21.7
167.5°	30.2	29.7	28.3	25.9	24.5	24.5	25.9	26.4	25.5	25.5	25.0
170°	27.4	27.4	27.8	28.3	27.4	25.9	25.0	25.0	26.4	27.8	28.3
172.5°	26.4	26.9	27.8	29.2	29.2	27.4	25.9	25.5	26.9	28.8	29.2
175°	27.8	28.3	28.8	28.8	27.8	27.4	26.9	26.4	27.4	29.2	29.7
177.5°	23.1	23.1	23.6	23.6	23.1	23.6	23.1	22.2	22.2	22.2	22.2
180°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7

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: SP1-2406-133-3

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.

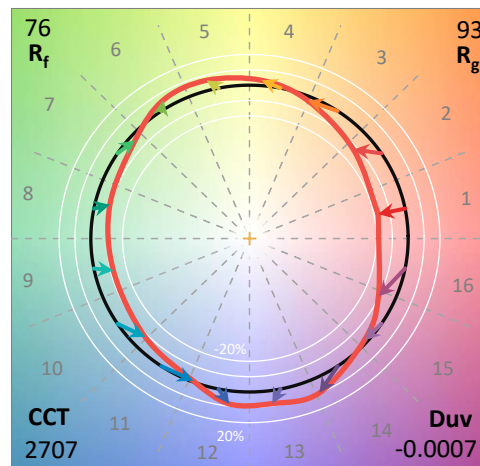
**Test Information**

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**

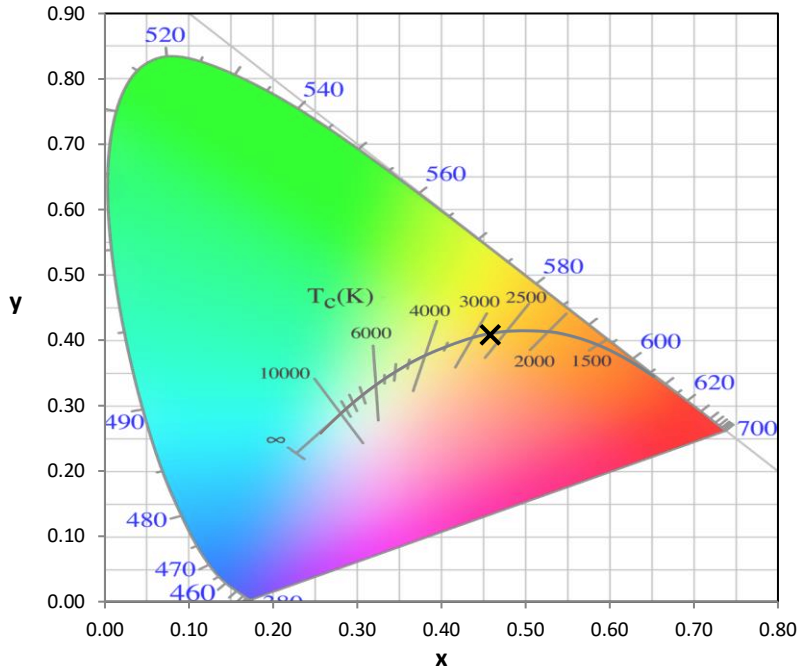
Stabilization Time: 0.813602M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

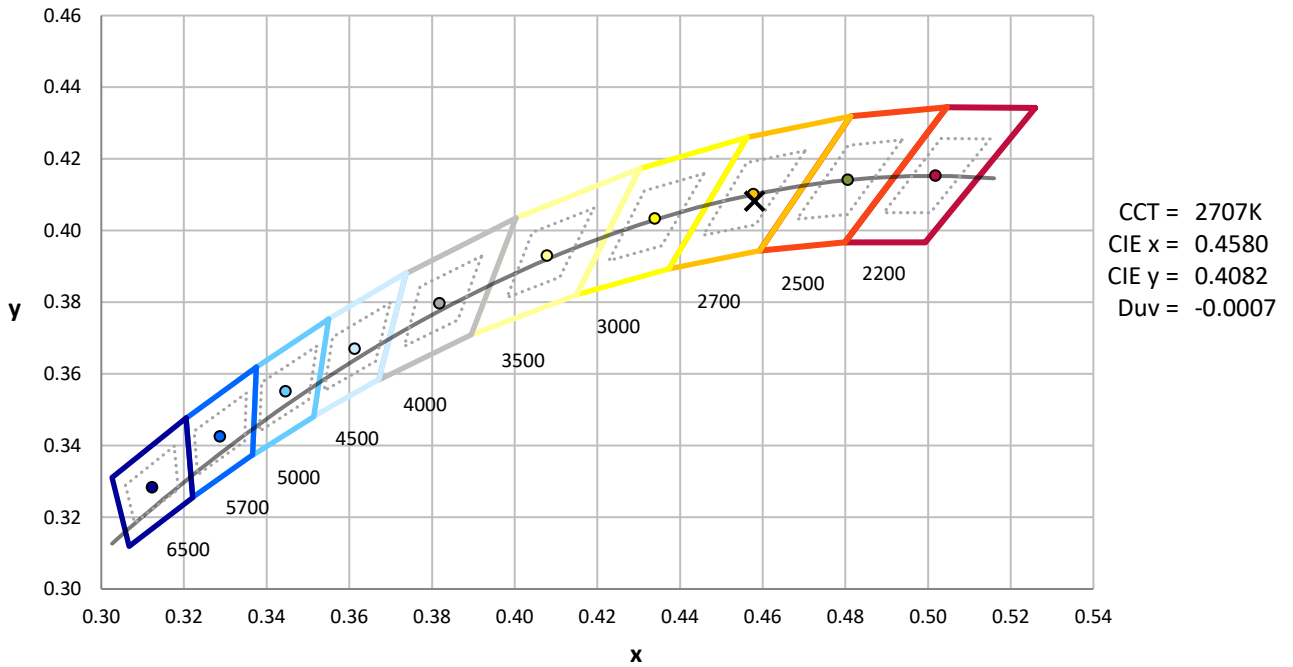
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

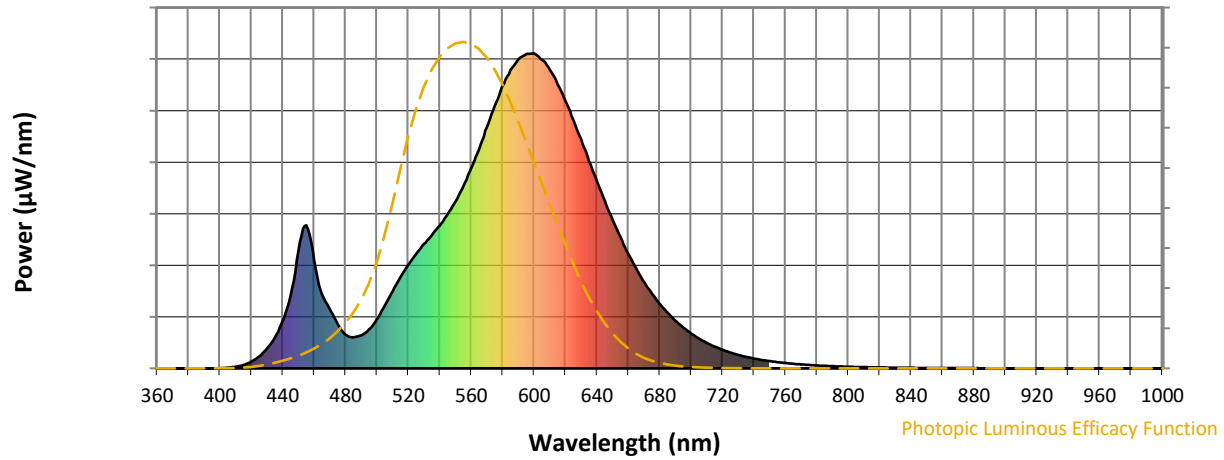


CCT = 2707K  
CIE x = 0.4580  
CIE y = 0.4082  
Duv = -0.0007

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

**Photopic Flux vs. Wavelength**

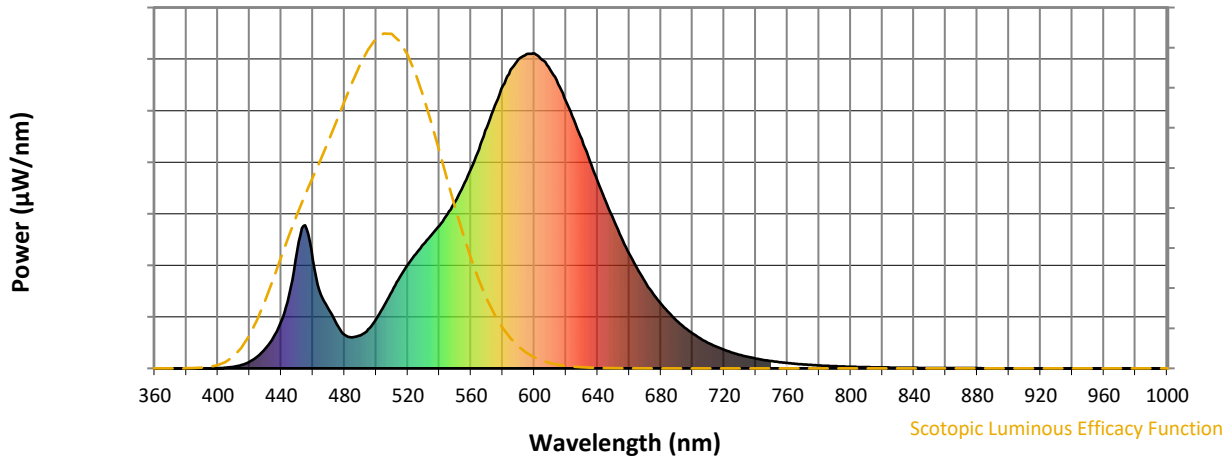


**Photopic Lumens: NR**

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**

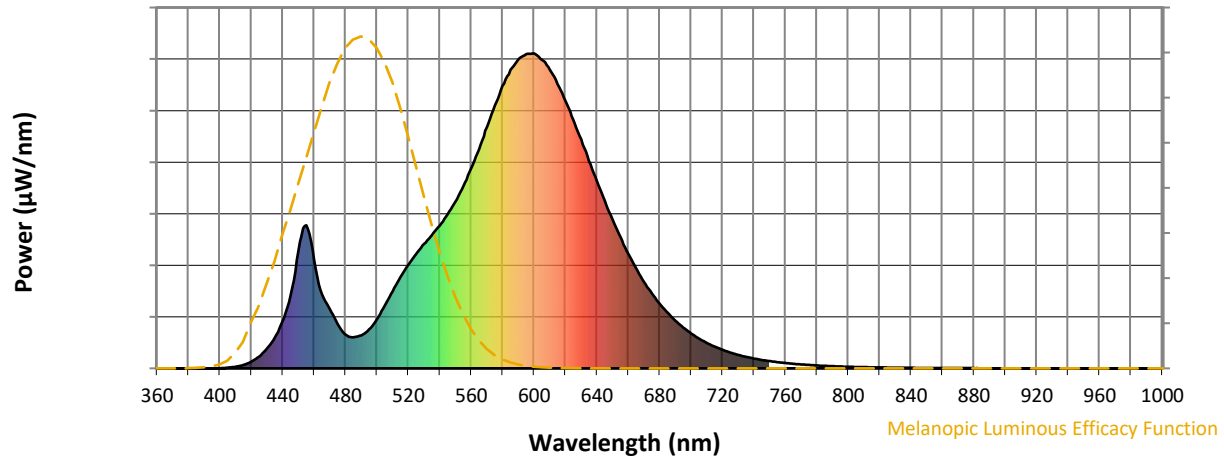
**S/P: 1.12**

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

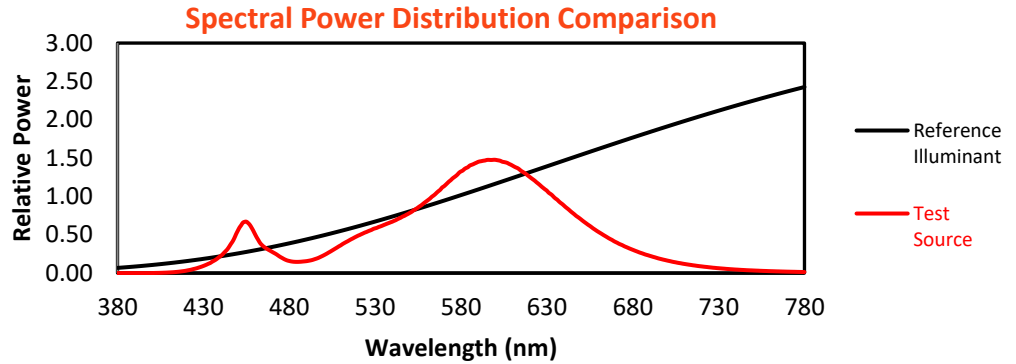
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	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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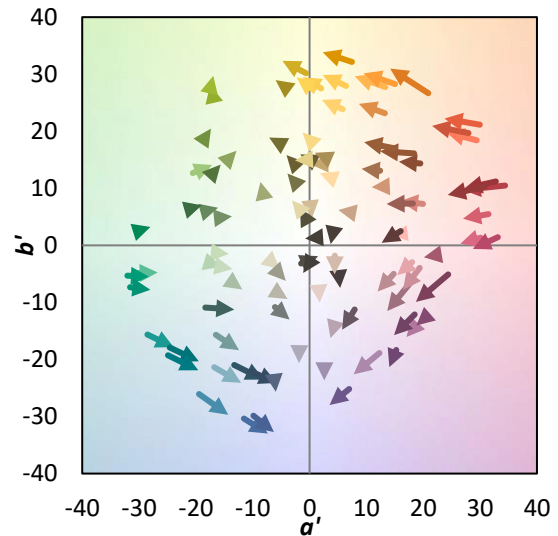
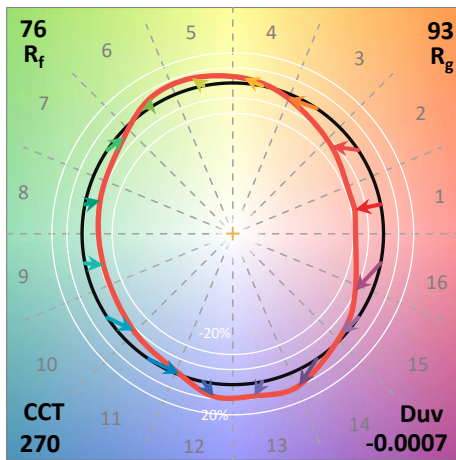
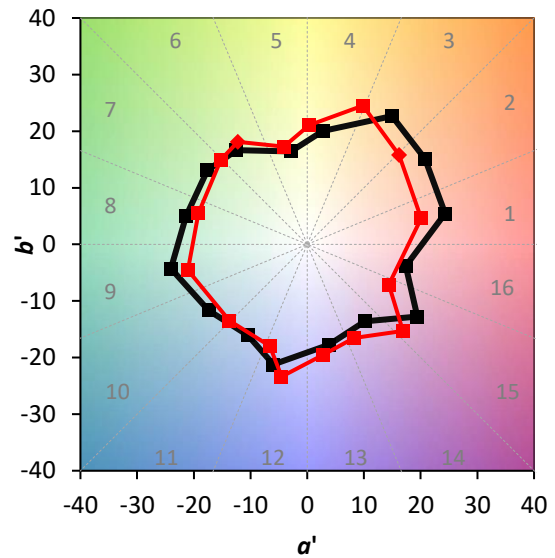
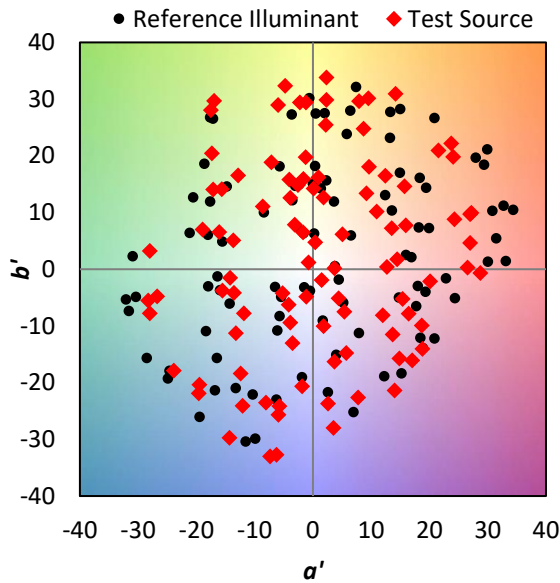
TM-30-18

**Summary**

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



**Color Vector Graphics**

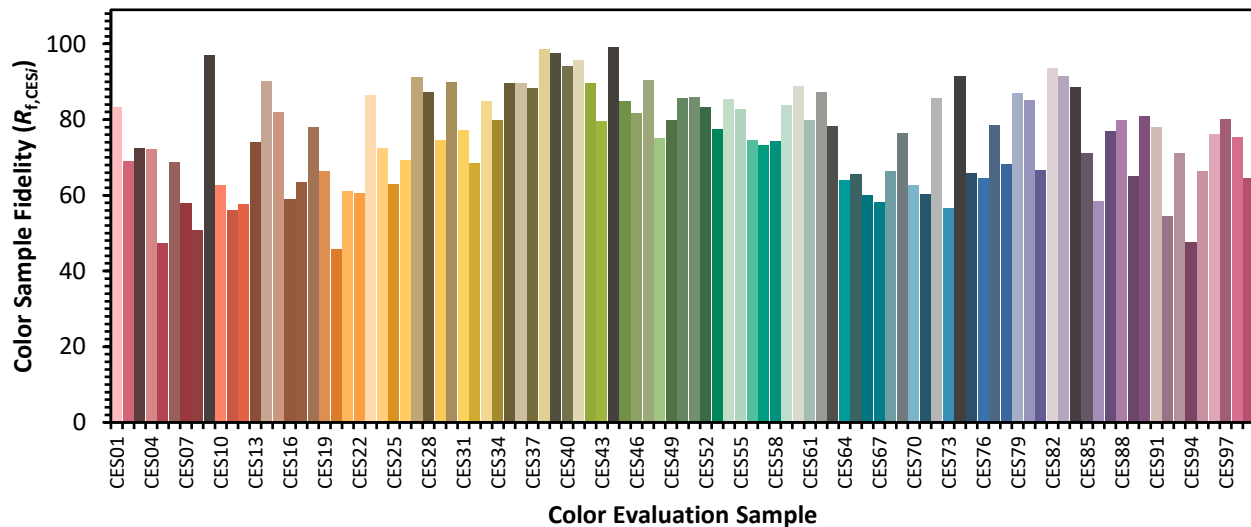


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

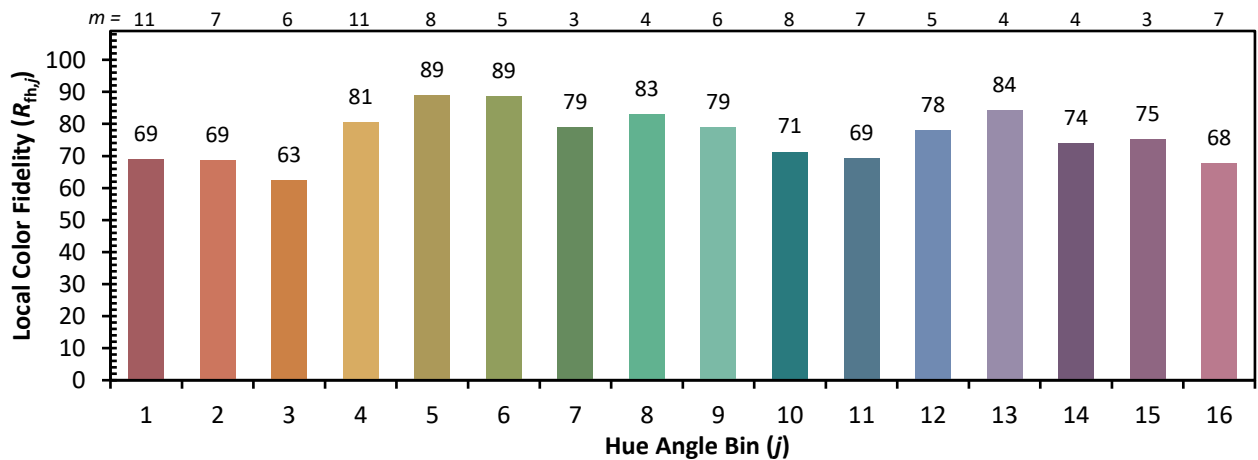
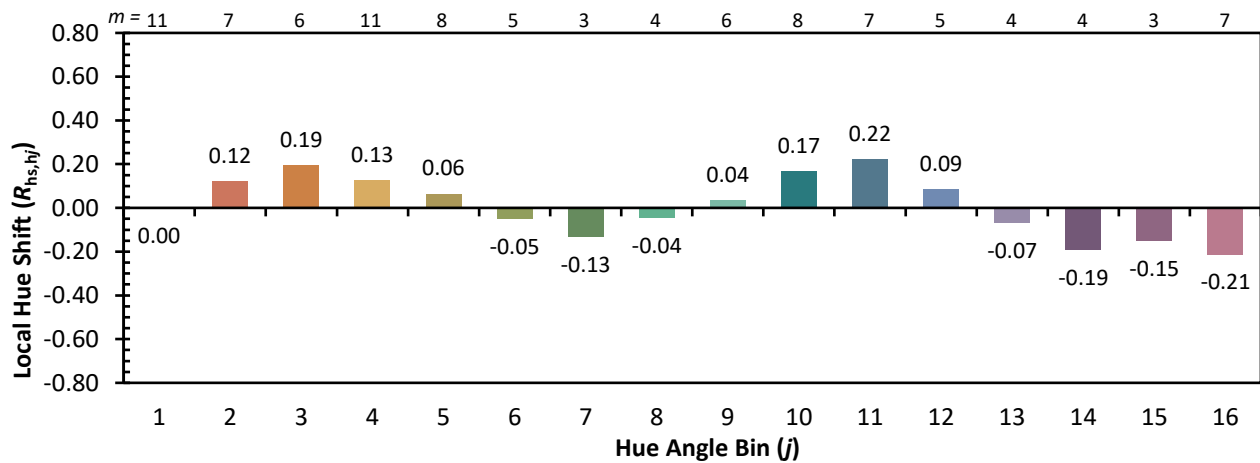
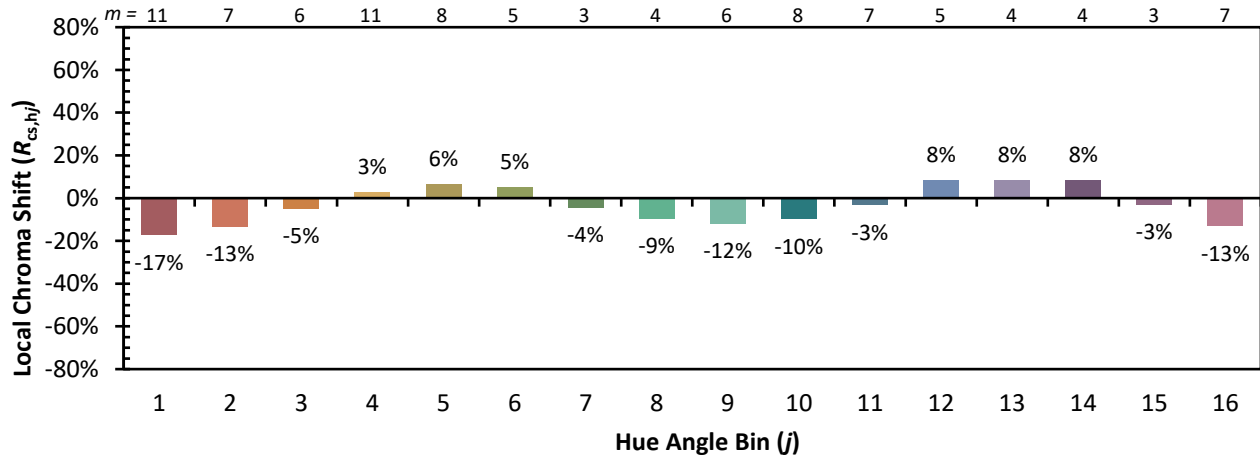
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 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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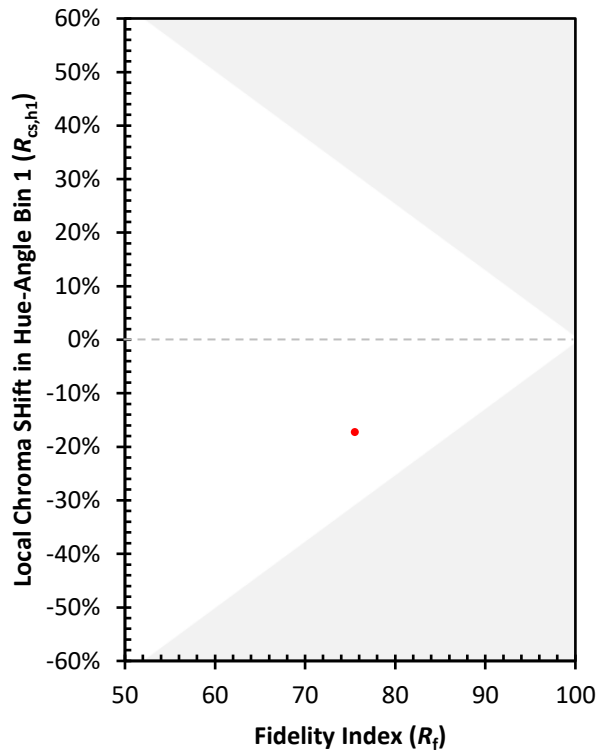
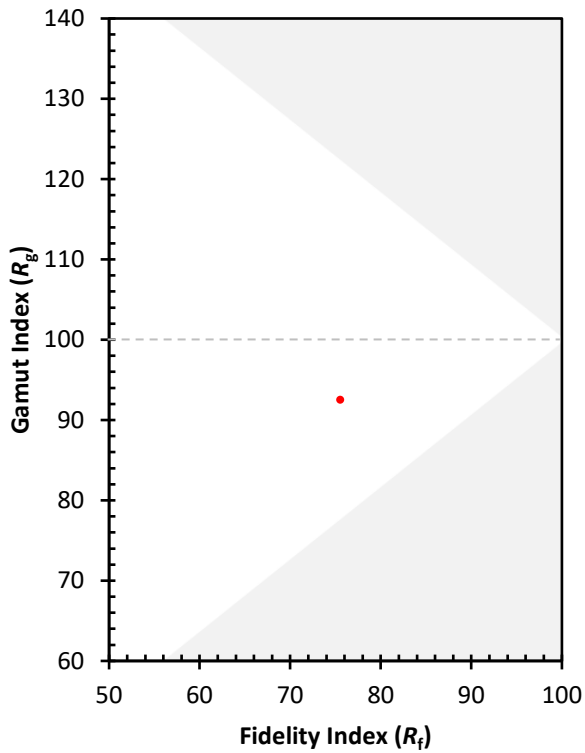
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)