

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: P856129

Luminaire Tested: **FFX-CLB-90-740-U-FR-T3**

Issue Date: 07/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P856129  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-90-740-U-FR-T3  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

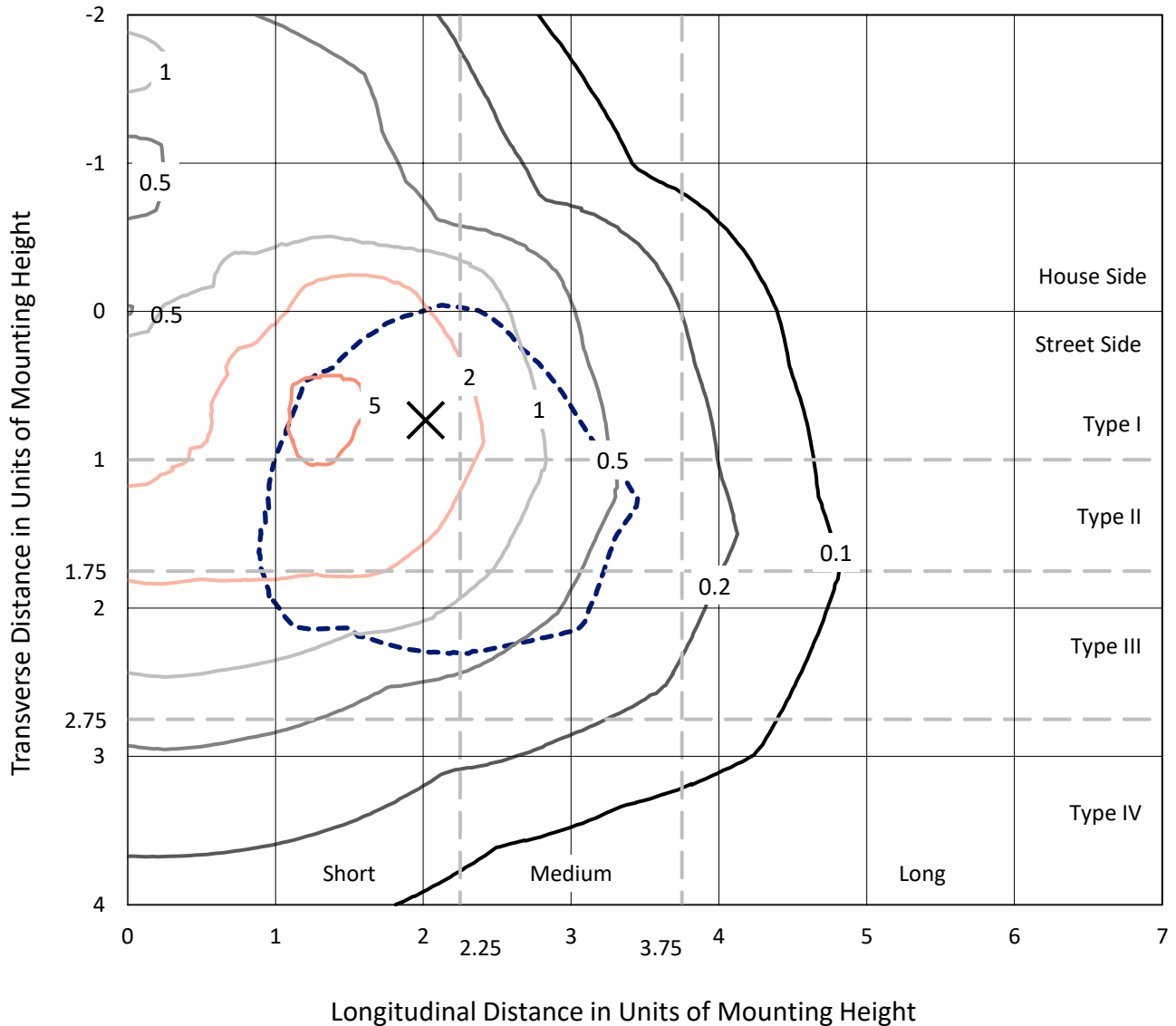
Lumens per Lamp: N/A  
Luminaire Lumens: 14283.2 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U5 - G4

Input Watts (W): 90.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.6%%  
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

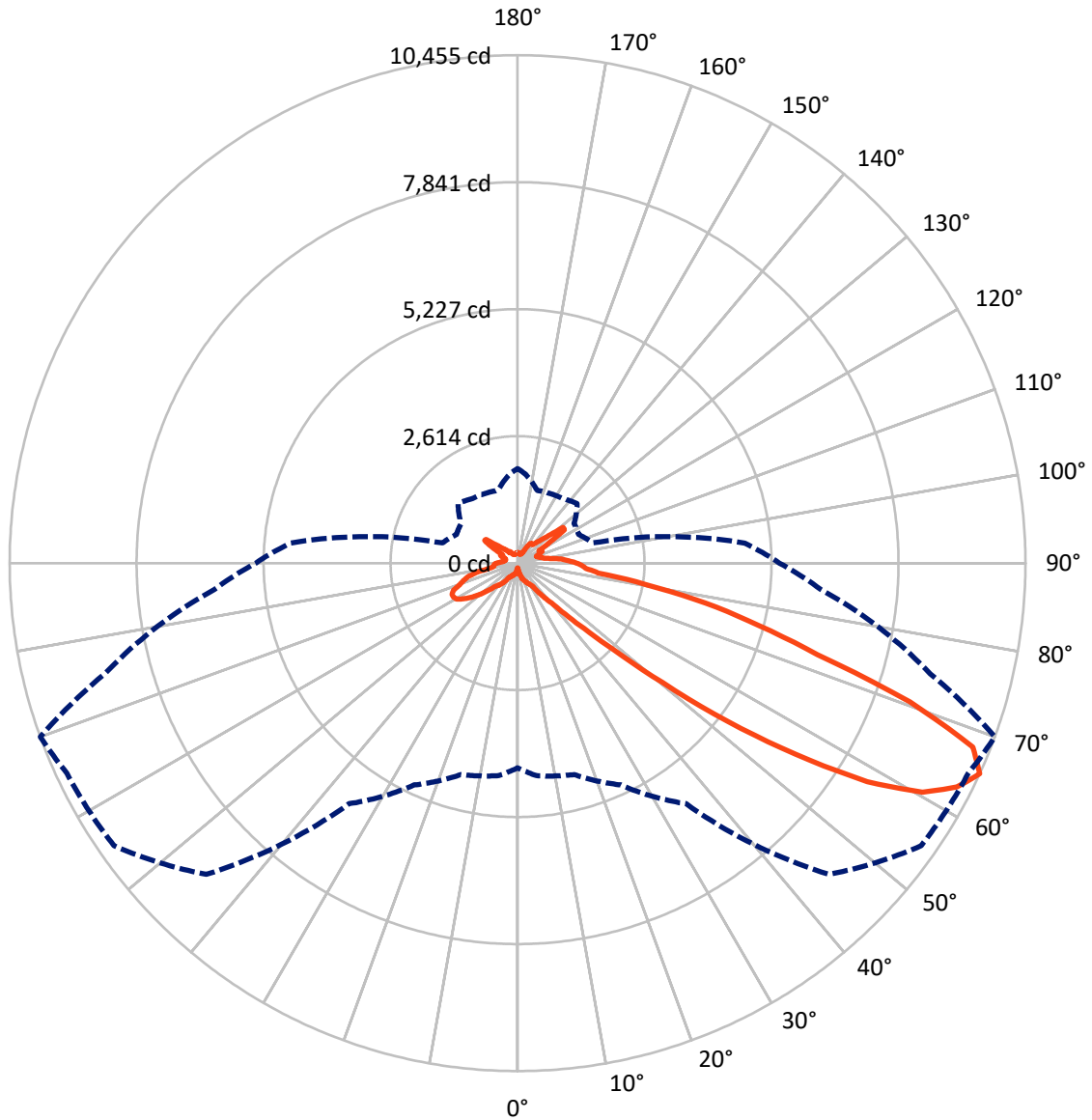
× Max cd  
 - - - 1/2 Max cd



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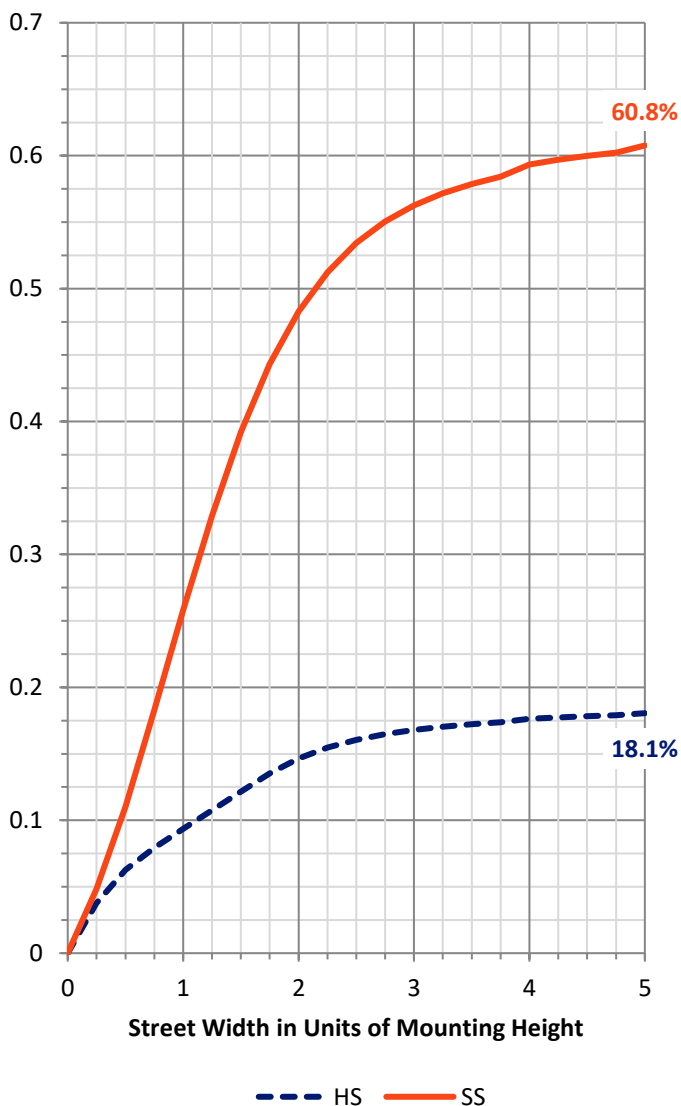
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2690.5	959.8	3650.4
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	8971.9	1660.9	10632.8
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	11662.4	2620.8	14283.2
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.3	0.1
10°-20°	74.8	0.5
20°-30°	158.8	1.1
30°-40°	323.5	2.3
40°-50°	822.5	5.8
50°-60°	2643.3	18.5
60°-70°	4313.9	30.2
70°-80°	2455.9	17.2
80°-90°	854.5	6.0
90°-100°	531.8	3.7
100°-110°	338.7	2.4
110°-120°	372.6	2.6
120°-130°	630.1	4.4
130°-140°	371.4	2.6
140°-150°	199.9	1.4
150°-160°	101.0	0.7
160°-170°	55.3	0.4
170°-180°	19.9	0.1
0°-90°	11662.4	81.7
0°-180°	14283.2	100.0

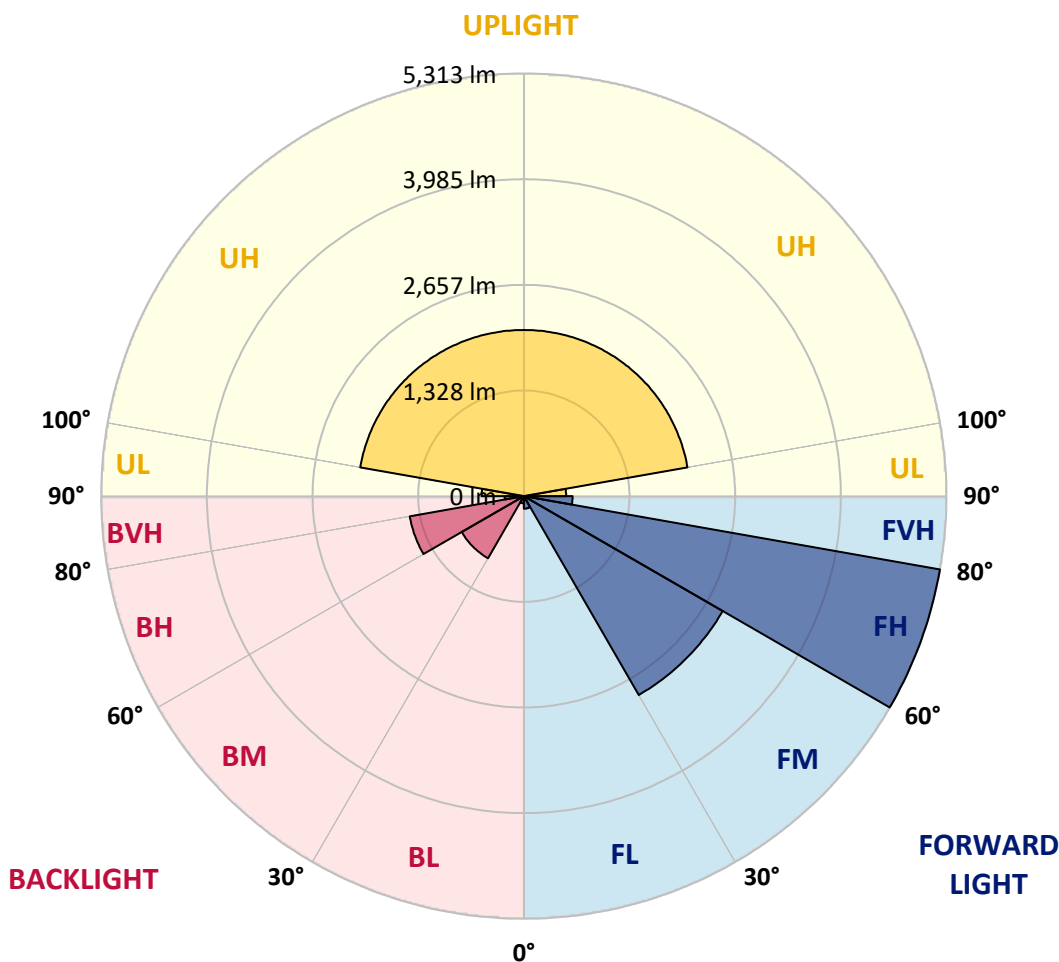


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.5	1.1			
FM (30°-60°)	2887.5	20.2			
FH (60°-80°)	5313.1	37.2			G3/7500
FVH (80°-90°)	612.7	4.3			G4/750
BL (0°-30°)	90.4	0.6	B0/110		
BM (30°-60°)	901.7	6.3	B1/1000		
BH (60°-80°)	1456.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	241.8	1.7			G3/500
UL (90°-100°)	531.8	3.7		U4/1000	
UH (100°-180°)	2089.0	14.6		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°	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2.5°	113.3	113.3	116.3	116.3	116.3	113.3	111.9	108.9	108.9	108.9	107.4
5°	147.2	145.7	147.2	151.6	153.1	148.7	145.7	141.3	141.3	139.8	139.8
7.5°	198.7	197.2	194.3	189.9	191.3	195.8	201.6	189.9	186.9	179.6	176.6
10°	248.7	245.8	248.7	241.4	234.0	223.7	229.6	226.7	220.8	213.4	207.5
12.5°	303.2	304.7	310.6	304.7	292.9	276.7	273.8	266.4	260.5	259.1	250.2
15°	359.1	360.6	366.5	365.0	353.3	331.2	322.3	315.0	312.0	303.2	284.1
17.5°	388.6	390.0	391.5	393.0	385.6	368.0	354.7	341.5	337.1	334.1	310.6
20°	403.3	400.4	403.3	409.2	415.1	400.4	387.1	379.7	375.3	365.0	334.1
22.5°	426.8	423.9	422.4	426.8	444.5	434.2	421.0	413.6	409.2	395.9	348.8
25°	451.9	448.9	453.3	450.4	472.5	468.1	454.8	447.5	441.6	425.4	370.9
27.5°	479.8	476.9	481.3	478.4	496.0	499.0	490.1	484.2	475.4	451.9	387.1
30°	503.4	500.4	504.9	503.4	521.0	531.3	526.9	525.5	512.2	484.2	415.1
32.5°	522.5	521.0	531.3	535.8	540.2	563.7	560.8	574.0	559.3	525.5	456.3
35°	566.7	571.1	599.1	628.5	632.9	680.0	685.9	734.5	719.7	675.6	591.7
37.5°	875.8	859.6	831.6	803.6	793.3	884.6	897.8	946.4	909.6	827.2	691.8
40°	933.2	906.7	874.3	852.2	855.2	1018.5	990.6	1174.6	1070.1	946.4	844.9
42.5°	886.1	877.2	990.6	1043.6	1005.3	1243.7	1196.6	1546.9	1427.7	1124.5	1020.0
45°	1111.3	1093.6	1133.3	1186.3	1198.1	1636.7	1604.3	1970.8	1922.3	1405.6	1308.5
47.5°	1271.7	1255.5	1308.5	1488.1	1642.6	2116.6	2293.2	2821.6	2650.9	1997.3	1772.1
50°	1753.0	1750.1	1913.4	2126.9	2397.7	3079.2	3548.7	4141.9	3866.6	2827.5	2430.1
52.5°	2228.4	2234.3	2434.5	2812.8	3093.9	4297.9	4964.6	5379.7	5416.5	3687.1	3149.8
55°	2587.6	2624.4	2865.7	3500.1	3925.5	5382.7	6248.1	6570.5	6938.4	4982.3	3899.0
57.5°	3288.2	3344.1	3573.7	4194.9	4789.5	6733.8	7902.5	7937.8	8486.8	6418.9	4702.6
60°	3900.5	4031.5	4112.4	4676.2	5487.2	8024.7	9131.5	9060.9	9576.0	7609.6	5518.1
62.5°	4090.3	4240.5	4317.0	4917.5	6039.1	8748.8	9705.6	9793.9	10148.6	8445.6	6017.0
65°	4214.0	4390.6	4505.4	5036.8	6045.0	9057.9	10141.2	10235.4	10454.7	8795.9	6265.8
67.5°	4150.7	4375.9	4523.1	4995.6	5727.1	8819.5	10054.4	9873.4	10105.9	8503.0	5987.6
70°	3623.8	3859.3	4007.9	4359.7	4788.0	7415.3	8667.9	8364.7	8569.3	7097.4	4923.4
72.5°	2952.6	3068.9	3160.1	3352.9	3609.0	5469.5	6586.7	6335.0	6457.1	5340.0	3690.0
75°	2425.7	2461.0	2574.3	2684.7	2727.4	4000.6	5217.8	4988.2	5131.0	4065.3	2936.4
77.5°	1761.8	1782.4	1944.4	1962.0	1951.7	2745.1	4112.4	3910.8	3956.4	3021.8	2191.6
80°	1023.0	1062.7	1274.6	1264.3	1246.7	1691.2	2895.2	2814.2	2672.9	2051.8	1517.5
82.5°	721.2	761.0	858.1	880.2	868.4	1214.3	1879.6	1826.6	1673.5	1427.7	1049.4
85°	759.5	763.9	768.3	778.6	759.5	1083.3	1439.5	1413.0	1414.5	1180.4	865.5
87.5°	749.2	766.8	774.2	778.6	759.5	1028.8	1337.9	1304.1	1320.3	1121.6	840.4
90°	657.9	690.3	693.3	700.6	690.3	918.5	1201.1	1168.7	1189.3	1011.2	765.4
92.5°	537.2	554.9	575.5	603.5	591.7	786.0	1021.5	997.9	1023.0	875.8	672.6
95°	509.3	528.4	541.7	560.8	543.1	716.8	922.9	875.8	896.4	766.8	579.9
97.5°	421.0	437.1	448.9	456.3	443.0	565.2	708.0	675.6	674.1	593.2	463.6
100°	359.1	369.4	379.7	387.1	375.3	468.1	560.8	549.0	552.0	490.1	398.9
102.5°	341.5	347.4	363.6	365.0	351.8	426.8	504.9	500.4	506.3	453.3	373.9
105°	334.1	338.5	351.8	347.4	335.6	398.9	465.1	468.1	468.1	422.4	350.3
107.5°	312.0	319.4	334.1	326.8	320.9	368.0	428.3	418.0	421.0	393.0	332.6
110°	309.1	315.0	329.7	323.8	319.4	359.1	412.1	409.2	413.6	388.6	341.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	384.2	378.3	390.0	378.3	385.6	419.5	475.4	469.5	482.8	473.9	426.8
115°	473.9	476.9	488.7	465.1	472.5	506.3	537.2	547.5	559.3	546.1	497.5
117.5°	438.6	463.6	448.9	446.0	440.1	466.6	462.2	488.7	500.4	490.1	471.0
120°	469.5	500.4	457.8	435.7	426.8	493.1	525.5	524.0	515.2	494.6	454.8
122.5°	702.1	706.5	709.4	775.7	752.1	816.9	836.0	811.0	811.0	837.5	756.5
125°	1095.1	1099.5	1096.5	1126.0	1109.8	1171.6	1196.6	1195.2	1180.4	1167.2	1087.7
127.5°	1106.9	1106.9	1096.5	1080.4	1095.1	1155.4	1156.9	1212.8	1193.7	1158.4	1084.8
130°	772.7	778.6	815.4	827.2	847.8	861.0	846.3	894.9	903.7	897.8	847.8
132.5°	640.3	650.6	690.3	705.0	718.3	719.7	713.9	752.1	761.0	761.0	738.9
135°	553.4	565.2	569.6	562.3	581.4	596.1	607.9	638.8	635.9	630.0	610.8
137.5°	482.8	487.2	473.9	457.8	468.1	510.7	534.3	566.7	565.2	554.9	522.5
140°	407.7	409.2	401.8	394.5	404.8	441.6	463.6	499.0	494.6	487.2	448.9
142.5°	309.1	313.5	332.6	347.4	372.4	448.9	437.1	468.1	490.1	507.8	419.5
145°	325.3	319.4	316.5	332.6	365.0	475.4	441.6	481.3	491.6	503.4	401.8
147.5°	375.3	378.3	373.9	363.6	407.7	443.0	423.9	459.2	465.1	462.2	421.0
150°	294.4	298.8	300.3	295.8	350.3	348.8	329.7	356.2	359.1	359.1	331.2
152.5°	239.9	241.4	238.4	235.5	270.8	264.9	256.1	264.9	263.5	262.0	256.1
155°	228.1	228.1	225.2	226.7	250.2	244.3	238.4	244.3	241.4	237.0	231.1
157.5°	210.5	212.0	212.0	216.4	231.1	220.8	214.9	217.8	214.9	212.0	212.0
160°	198.7	198.7	200.2	206.1	214.9	204.6	200.2	201.6	200.2	197.2	198.7
162.5°	194.3	194.3	195.8	198.7	200.2	194.3	189.9	189.9	189.9	189.9	194.3
165°	191.3	191.3	191.3	192.8	192.8	188.4	186.9	188.4	189.9	191.3	197.2
167.5°	197.2	197.2	197.2	197.2	195.8	192.8	191.3	192.8	194.3	195.8	200.2
170°	206.1	204.6	204.6	203.1	201.6	198.7	197.2	195.8	195.8	197.2	198.7
172.5°	212.0	212.0	210.5	210.5	209.0	206.1	203.1	201.6	201.6	201.6	201.6
175°	219.3	219.3	219.3	219.3	217.8	214.9	213.4	210.5	210.5	210.5	210.5
177.5°	228.1	228.1	228.1	228.1	225.2	222.3	219.3	216.4	216.4	216.4	214.9
180°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2.5°	106.0	104.5	100.1	98.6	97.1	94.2	91.3	89.8	88.3	88.3	89.8
5°	141.3	139.8	139.8	135.4	131.0	123.6	120.7	120.7	122.2	123.6	126.6
7.5°	178.1	181.0	184.0	176.6	163.4	145.7	135.4	138.4	145.7	151.6	151.6
10°	206.1	206.1	216.4	207.5	185.5	163.4	148.7	145.7	147.2	148.7	150.1
12.5°	245.8	245.8	239.9	216.4	194.3	172.2	160.4	157.5	157.5	151.6	150.1
15°	275.2	266.4	245.8	223.7	204.6	182.5	169.3	164.9	160.4	156.0	154.5
17.5°	292.9	276.7	248.7	228.1	209.0	191.3	178.1	169.3	164.9	166.3	166.3
20°	313.5	295.8	270.8	248.7	225.2	201.6	185.5	172.2	167.8	169.3	167.8
22.5°	329.7	312.0	287.0	262.0	237.0	212.0	192.8	176.6	170.7	172.2	172.2
25°	348.8	334.1	307.6	278.2	247.3	223.7	204.6	185.5	176.6	175.2	175.2
27.5°	368.0	357.7	329.7	294.4	262.0	234.0	214.9	192.8	182.5	178.1	178.1
30°	393.0	381.2	353.3	310.6	275.2	248.7	228.1	204.6	189.9	182.5	181.0
32.5°	432.7	419.5	385.6	340.0	290.0	263.5	241.4	214.9	195.8	186.9	185.5
35°	562.3	541.7	488.7	435.7	354.7	294.4	257.6	223.7	201.6	189.9	188.4
37.5°	643.2	593.2	522.5	487.2	398.9	360.6	310.6	256.1	210.5	195.8	192.8
40°	774.2	705.0	616.7	547.5	388.6	394.5	363.6	319.4	250.2	206.1	201.6
42.5°	884.6	797.8	663.8	574.0	390.0	412.1	388.6	351.8	300.3	244.3	235.5
45°	1090.7	978.8	771.3	616.7	400.4	438.6	409.2	370.9	325.3	287.0	282.6
47.5°	1473.3	1321.7	964.1	687.4	468.1	509.3	456.3	406.2	365.0	320.9	313.5
50°	2016.5	1835.4	1186.3	743.3	584.3	671.2	575.5	491.6	444.5	412.1	407.7
52.5°	2642.0	2452.1	1349.7	846.3	725.6	871.4	761.0	663.8	602.0	602.0	610.8
55°	3369.1	3179.3	1480.7	989.1	899.3	1092.1	972.9	893.4	864.0	989.1	1023.0
57.5°	4090.3	3849.0	1569.0	1134.8	1102.4	1351.2	1208.4	1140.7	1195.2	1566.1	1680.9
60°	4748.3	4349.4	1638.2	1273.2	1276.1	1557.2	1451.3	1446.9	1530.8	2004.7	2150.4
62.5°	5128.0	4584.9	1633.8	1352.7	1377.7	1685.3	1597.0	1620.5	1667.6	2078.3	2188.7
65°	5388.5	4696.8	1599.9	1388.0	1420.4	1730.9	1620.5	1580.8	1549.9	1839.8	1945.8
67.5°	5209.0	4434.8	1523.4	1336.5	1393.9	1664.7	1519.0	1405.6	1345.3	1492.5	1564.6
70°	4362.6	3698.8	1348.2	1202.5	1255.5	1402.7	1262.9	1151.0	1087.7	1167.2	1201.1
72.5°	3304.4	2814.2	1215.8	1124.5	1101.0	1159.8	1027.4	902.3	864.0	915.5	922.9
75°	2631.7	2201.9	1118.6	1017.1	924.3	981.7	819.8	668.2	646.2	646.2	634.4
77.5°	1973.8	1632.3	953.8	791.9	681.5	775.7	610.8	465.1	435.7	429.8	413.6
80°	1323.2	1111.3	641.7	525.5	490.1	575.5	434.2	341.5	342.9	341.5	322.3
82.5°	924.3	858.1	521.0	457.8	419.5	453.3	393.0	328.2	325.3	328.2	307.6
85°	819.8	786.0	504.9	472.5	432.7	437.1	376.8	310.6	312.0	317.9	300.3
87.5°	787.5	749.2	506.3	456.3	422.4	404.8	341.5	287.0	295.8	301.7	287.0
90°	709.4	671.2	465.1	412.1	376.8	351.8	301.7	272.3	284.1	290.0	276.7
92.5°	615.2	575.5	387.1	363.6	354.7	354.7	316.5	290.0	297.3	300.3	288.5
95°	529.9	491.6	344.4	319.4	312.0	313.5	282.6	260.5	264.9	263.5	254.6
97.5°	428.3	404.8	300.3	284.1	276.7	273.8	253.2	237.0	245.8	251.7	244.3
100°	378.3	366.5	290.0	278.2	267.9	266.4	248.7	238.4	245.8	254.6	248.7
102.5°	353.3	344.4	276.7	260.5	253.2	250.2	238.4	226.7	234.0	242.9	238.4
105°	332.6	319.4	264.9	250.2	239.9	238.4	226.7	212.0	216.4	228.1	225.2
107.5°	315.0	306.2	263.5	247.3	234.0	234.0	220.8	209.0	210.5	214.9	214.9
110°	329.7	319.4	273.8	262.0	244.3	238.4	235.5	226.7	219.3	216.4	216.4



REPORT NUMBER: P856129  
 CATALOG NUMBER: FFX-CLB-90-740-U-FR-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	407.7	388.6	342.9	329.7	300.3	279.7	260.5	242.9	231.1	226.7	223.7
115°	481.3	459.2	404.8	370.9	331.2	300.3	273.8	254.6	237.0	231.1	237.0
117.5°	496.0	437.1	353.3	325.3	301.7	282.6	267.9	253.2	239.9	244.3	239.9
120°	491.6	419.5	356.2	395.9	356.2	312.0	276.7	276.7	272.3	250.2	254.6
122.5°	756.5	706.5	630.0	606.4	494.6	451.9	385.6	329.7	275.2	244.3	229.6
125°	1036.2	987.6	869.9	780.1	668.2	550.5	422.4	325.3	254.6	225.2	229.6
127.5°	1042.1	997.9	886.1	734.5	587.3	471.0	351.8	288.5	248.7	229.6	226.7
130°	812.5	769.8	674.1	557.8	465.1	388.6	316.5	260.5	225.2	210.5	206.1
132.5°	703.6	665.3	577.0	471.0	403.3	342.9	282.6	226.7	203.1	192.8	194.3
135°	591.7	546.1	462.2	404.8	362.1	307.6	253.2	207.5	195.8	192.8	191.3
137.5°	501.9	469.5	410.7	366.5	325.3	276.7	222.3	194.3	189.9	192.8	189.9
140°	426.8	400.4	368.0	329.7	279.7	234.0	198.7	185.5	192.8	194.3	192.8
142.5°	368.0	341.5	307.6	256.1	232.6	212.0	203.1	192.8	192.8	191.3	189.9
145°	307.6	272.3	256.1	263.5	248.7	228.1	212.0	191.3	184.0	184.0	185.5
147.5°	353.3	316.5	295.8	279.7	251.7	222.3	197.2	178.1	175.2	181.0	179.6
150°	304.7	270.8	256.1	234.0	216.4	194.3	178.1	170.7	172.2	179.6	179.6
152.5°	242.9	219.3	210.5	204.6	195.8	182.5	173.7	170.7	173.7	176.6	176.6
155°	228.1	214.9	204.6	200.2	189.9	179.6	172.2	170.7	173.7	176.6	179.6
157.5°	213.4	209.0	195.8	191.3	182.5	178.1	173.7	173.7	175.2	178.1	181.0
160°	203.1	201.6	189.9	188.4	182.5	179.6	179.6	181.0	182.5	182.5	182.5
162.5°	197.2	197.2	192.8	189.9	188.4	186.9	191.3	192.8	191.3	191.3	191.3
165°	198.7	200.2	195.8	192.8	191.3	194.3	201.6	201.6	198.7	197.2	195.8
167.5°	200.2	201.6	198.7	197.2	197.2	200.2	203.1	201.6	200.2	198.7	197.2
170°	198.7	200.2	200.2	201.6	201.6	201.6	204.6	204.6	201.6	200.2	200.2
172.5°	201.6	203.1	204.6	206.1	207.5	206.1	207.5	207.5	207.5	207.5	209.0
175°	210.5	210.5	212.0	212.0	210.5	212.0	212.0	212.0	213.4	216.4	216.4
177.5°	214.9	214.9	213.4	213.4	212.0	213.4	213.4	213.4	213.4	214.9	213.4
180°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8

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.

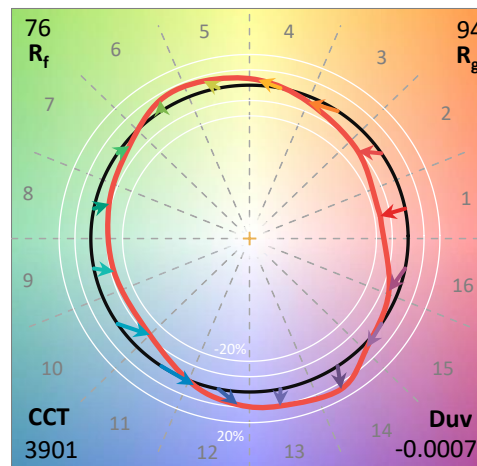
**Test Information**

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**

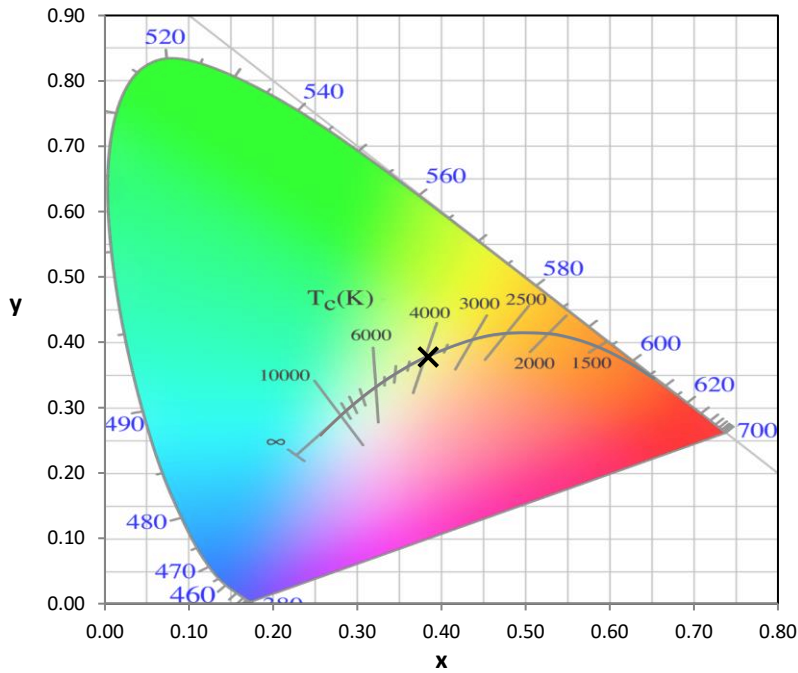
Stabilization Time: 0.818109M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.6

REPORT NUMBER: SP1-2406-133-1

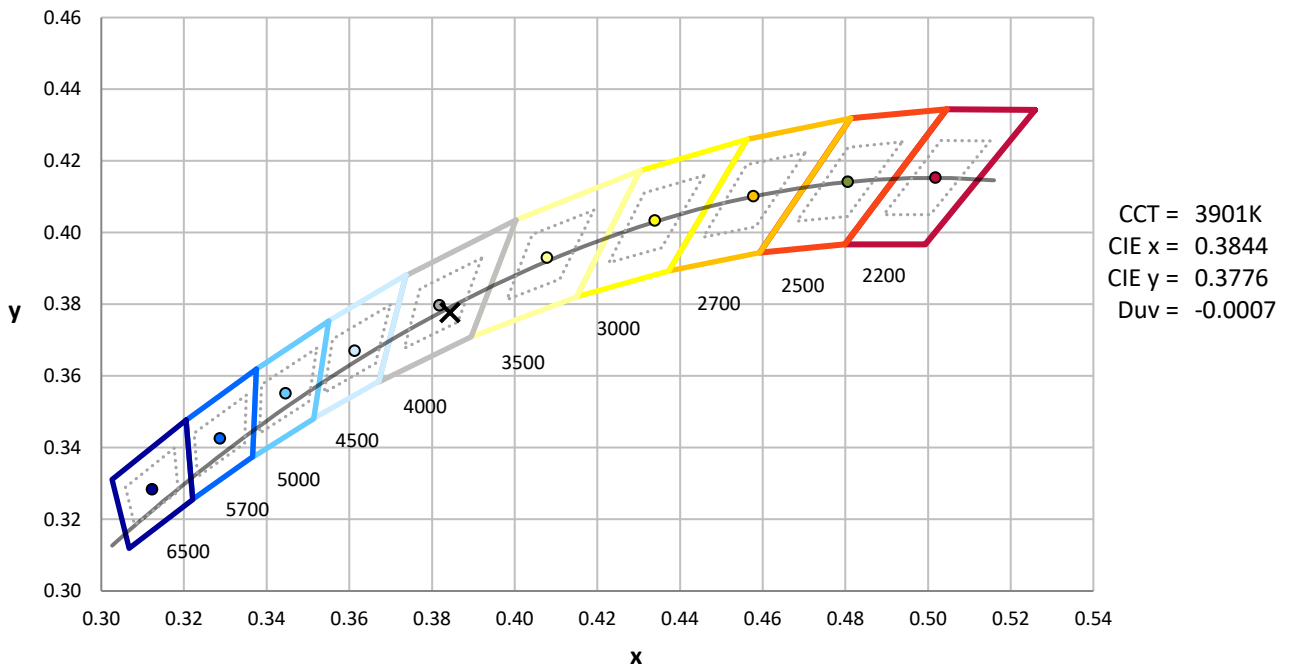
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



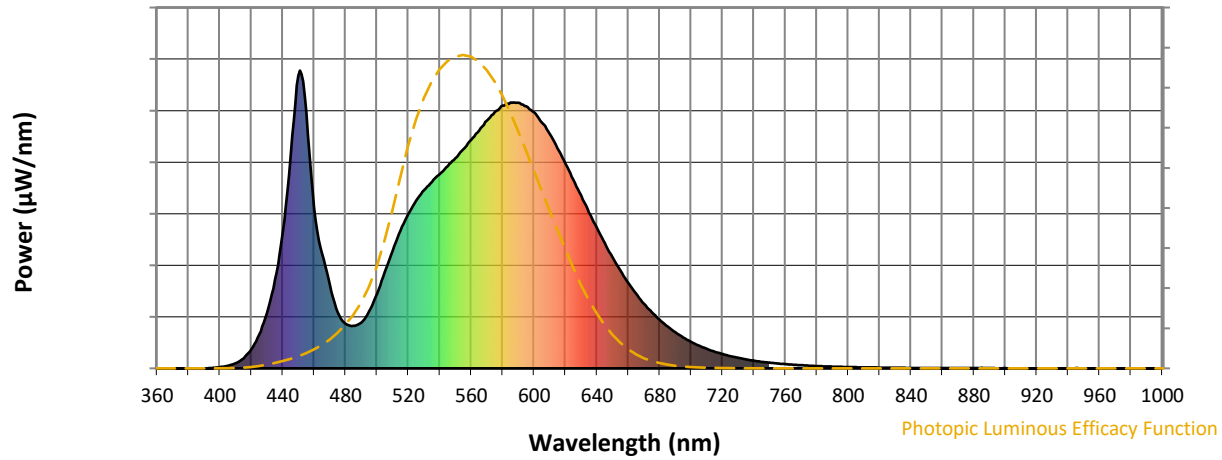
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-1

**Photopic Flux vs. Wavelength**

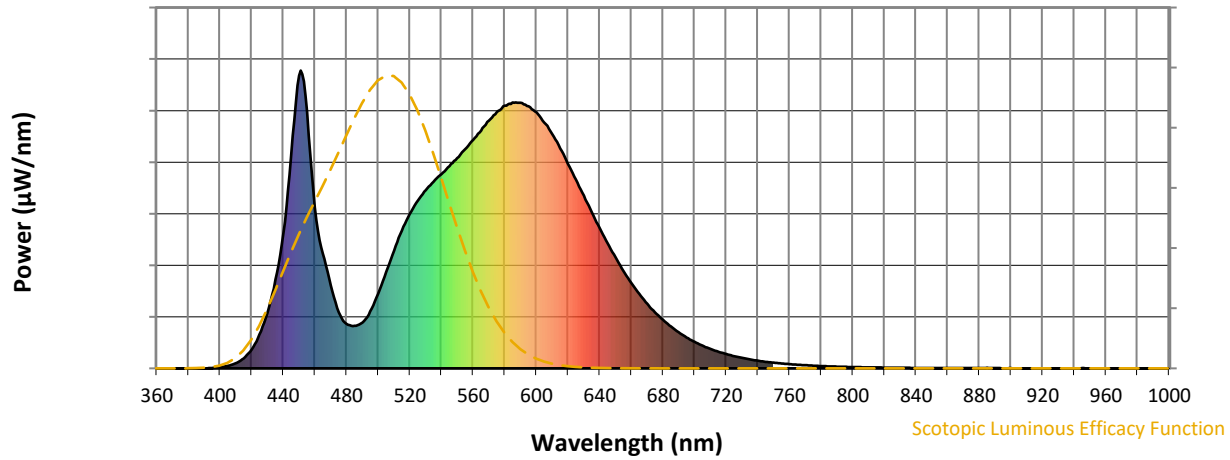


**Photopic Lumens: NR**

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	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

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

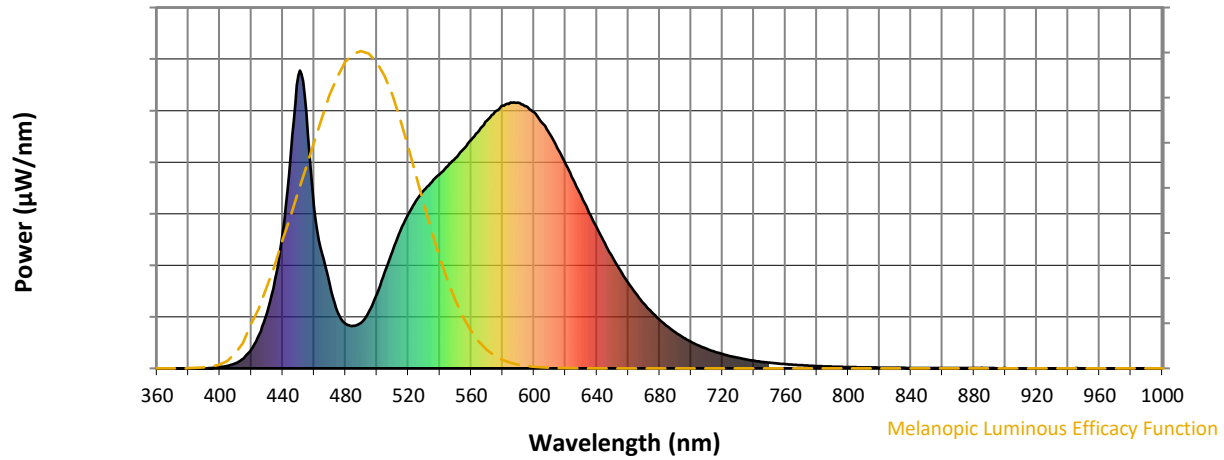
S/P: 1.53

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	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.04

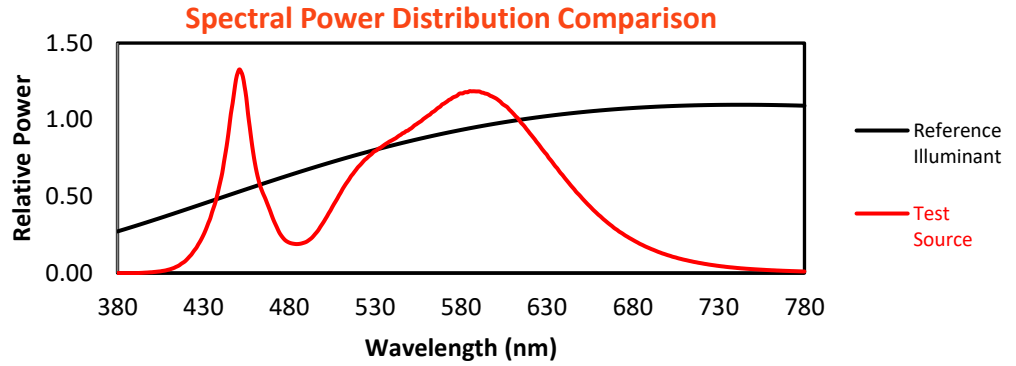
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	154	NR	620	687	NR	750	19	NR	880	1	NR
365	0	NR	495	191	NR	625	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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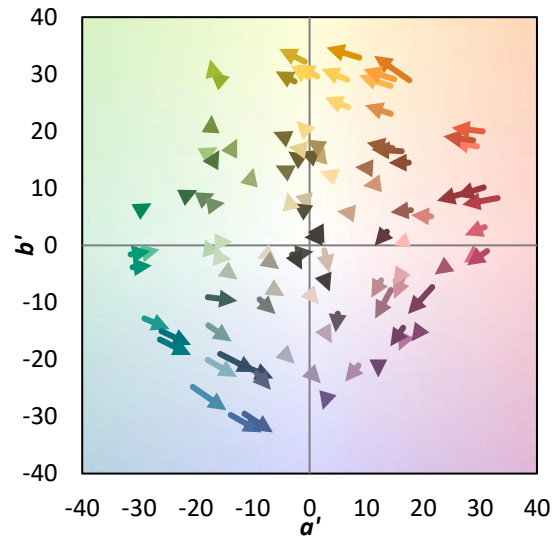
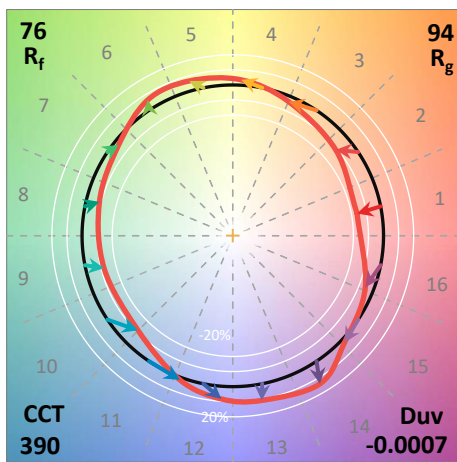
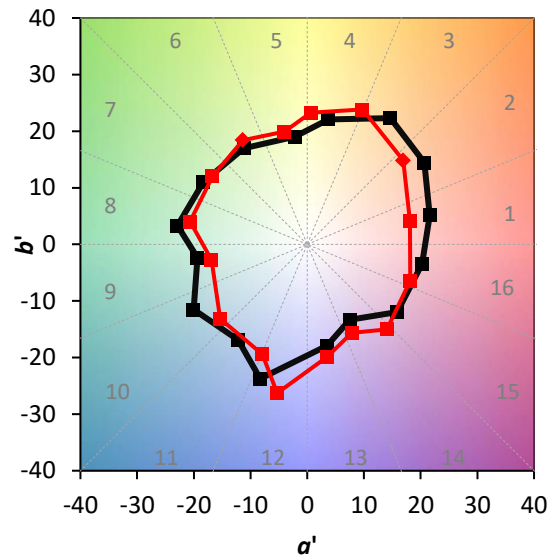
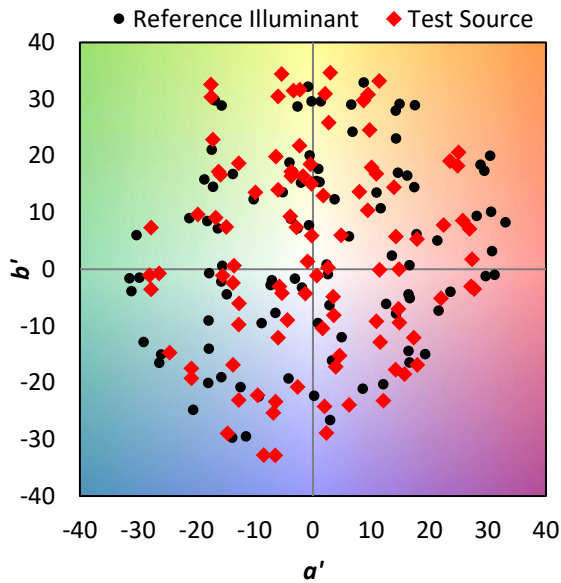
TM-30-18

**Summary**

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



**Color Vector Graphics**

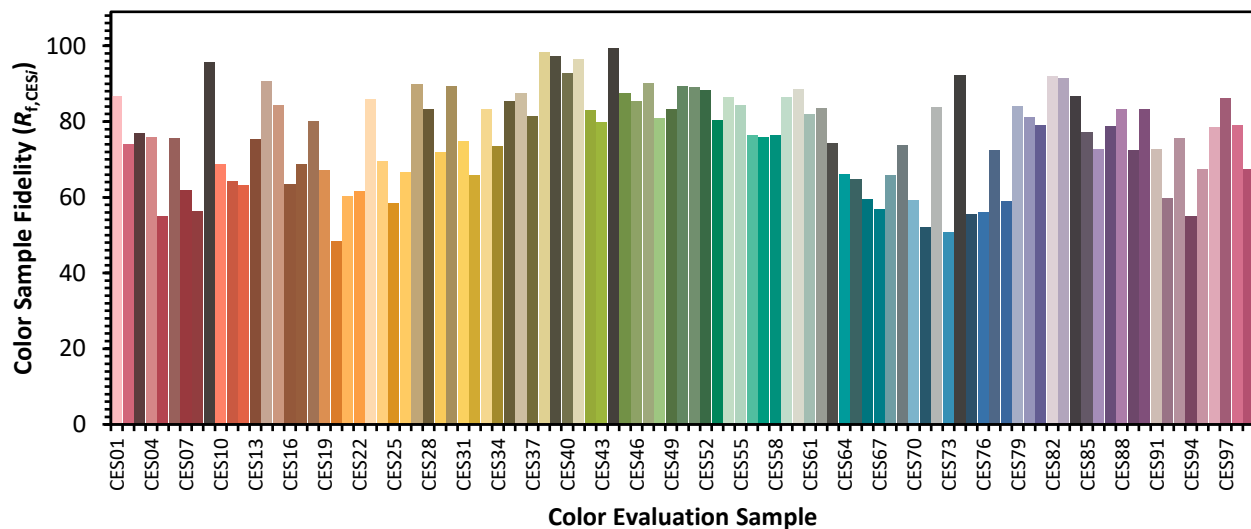


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TM-30-18

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

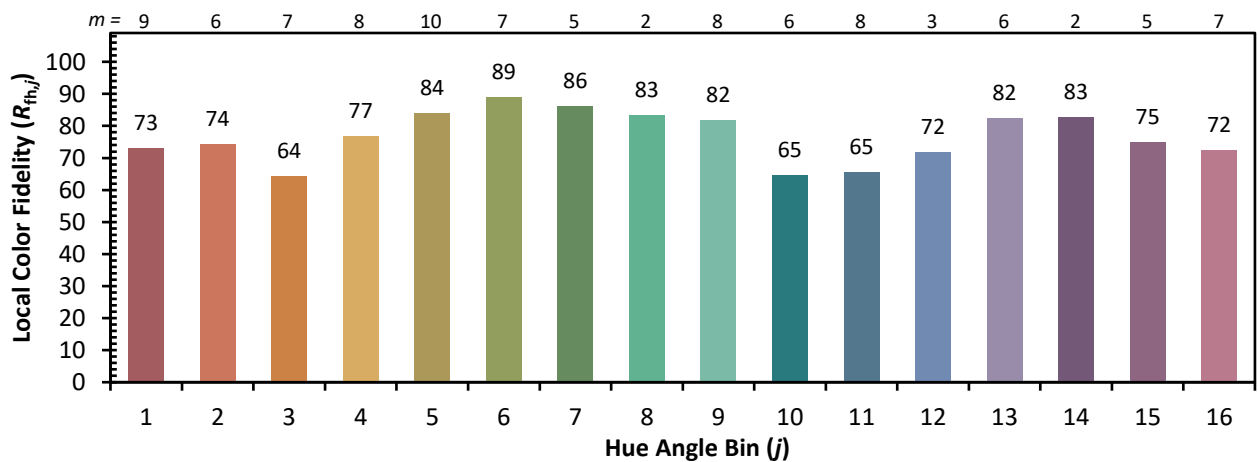
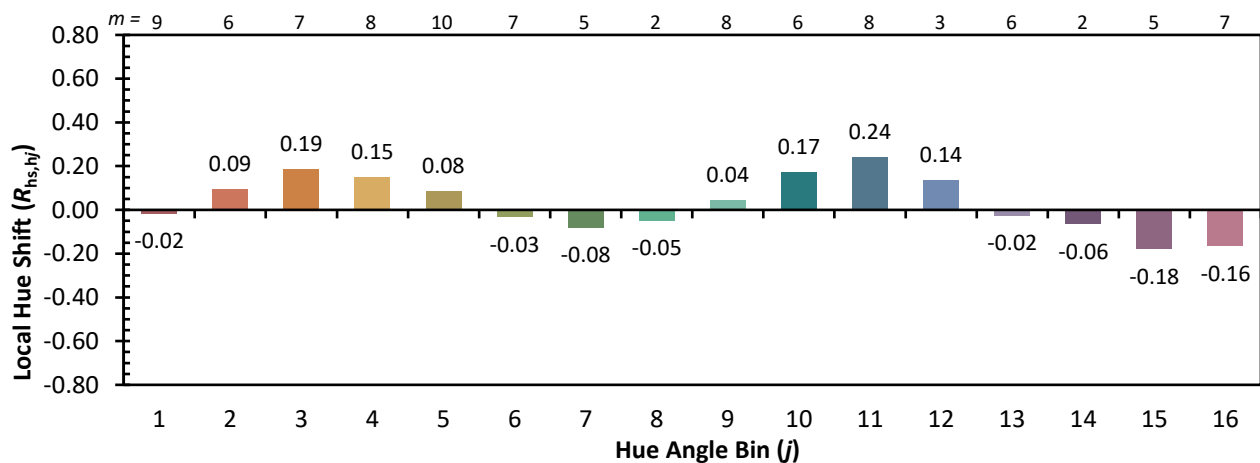
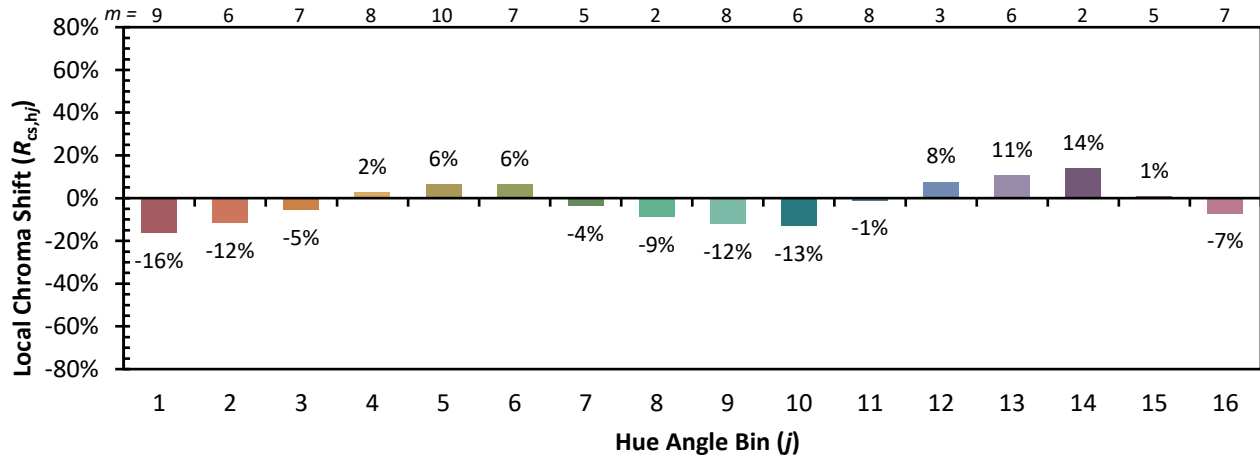
CES01 = 85	CES26 = 67	CES51 = 89	CES76 = 56
CES02 = 61	CES27 = 90	CES52 = 88	CES77 = 72
CES03 = 30	CES28 = 83	CES53 = 80	CES78 = 59
CES04 = 70	CES29 = 72	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 89	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 75	CES56 = 77	CES81 = 79
CES07 = 40	CES32 = 66	CES57 = 76	CES82 = 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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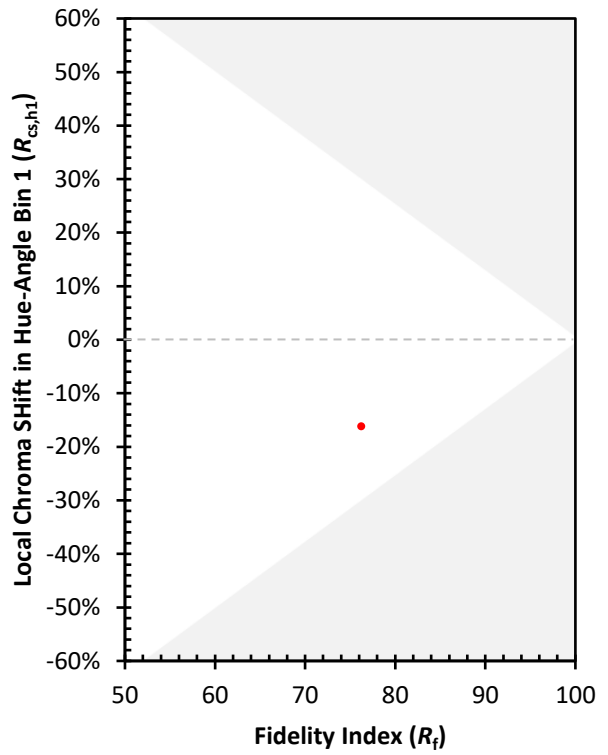
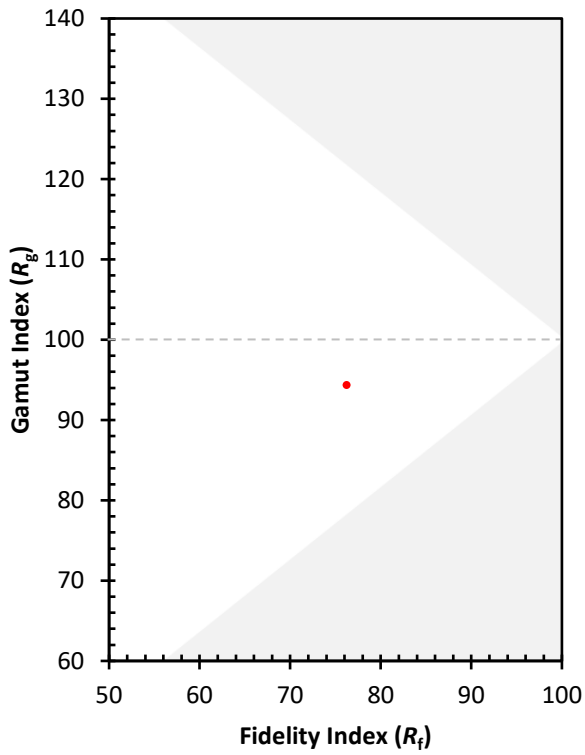
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-1

TM-30-18

Measure Comparisons



(END OF REPORT)