

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: P856230

Luminaire Tested: **FFX-CLB-70-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856230  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-70-750-U-FR-T3-UPLR  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR  
Light Source: (4) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

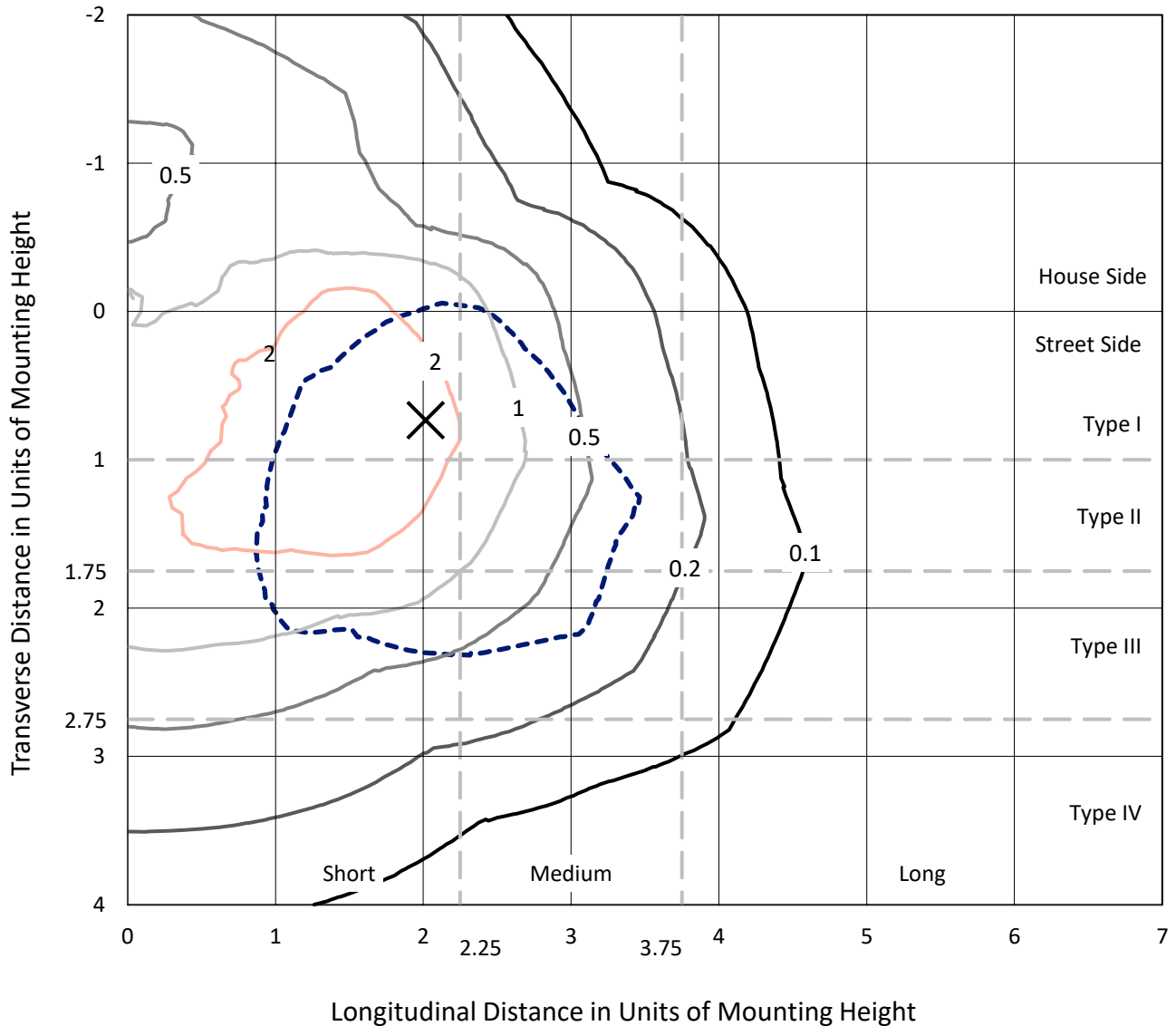
Lumens per Lamp: N/A  
Luminaire Lumens: 10827.2 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B3 - U4 - G4

Input Watts (W): 70.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 7.1%%  
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

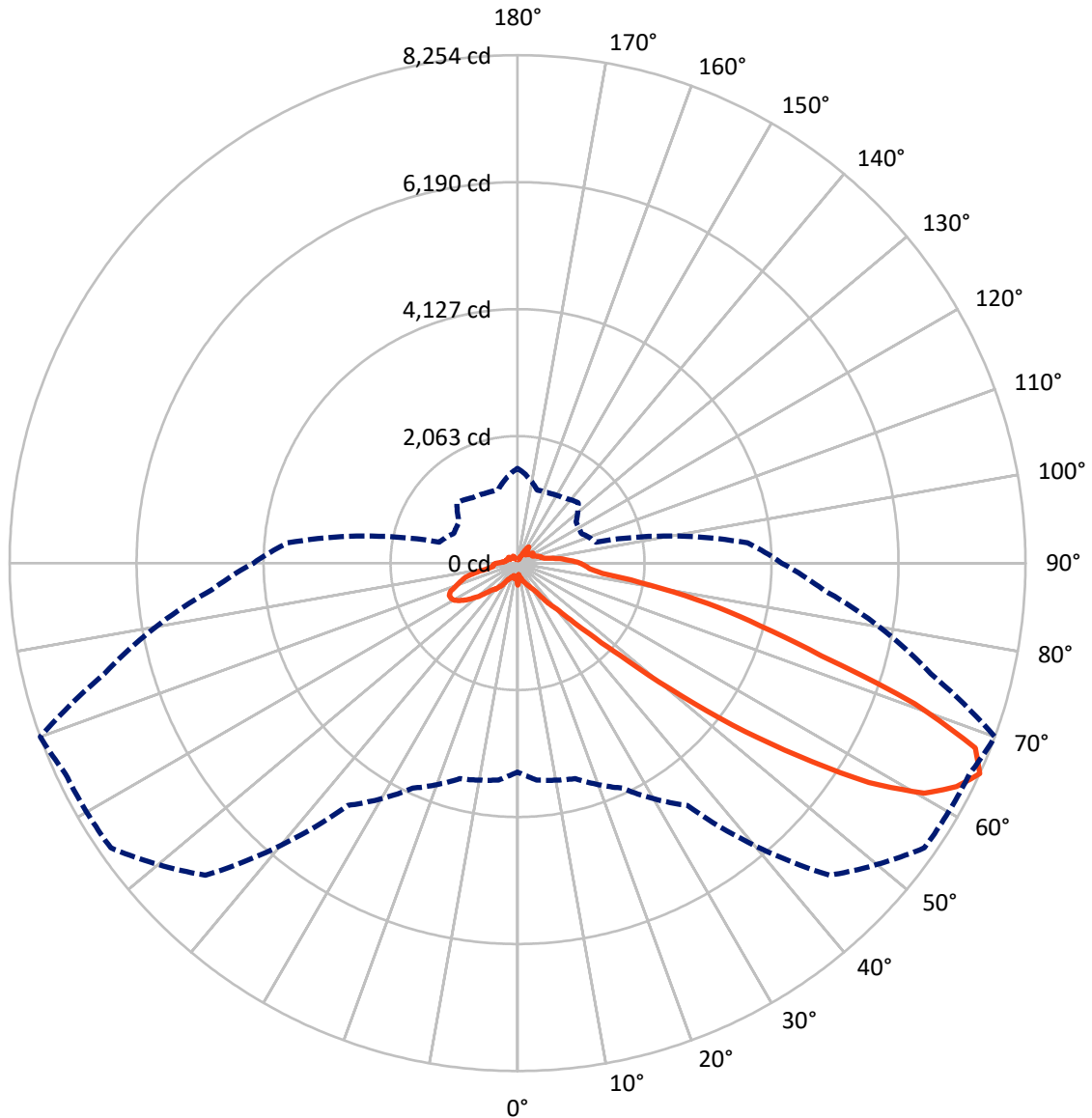
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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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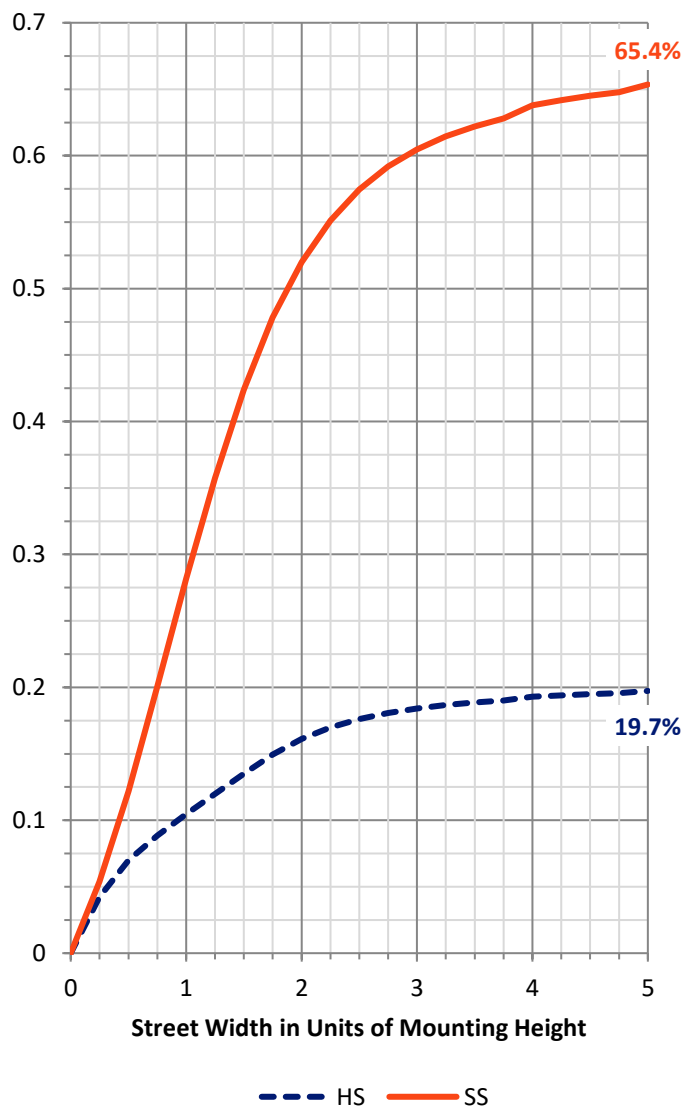
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2220.7	416.0	2636.7
	% Fixture	20.5	3.8	24.4
<b>Street Side</b>	Lumens	7322.6	867.9	8190.5
	% Fixture	67.6	8.0	75.6
<b>Total</b>	Lumens	9543.3	1283.9	10827.2
	% Fixture	88.1	11.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.1	0.2
10°-20°	72.4	0.7
20°-30°	146.1	1.3
30°-40°	309.2	2.9
40°-50°	721.0	6.7
50°-60°	2148.8	19.8
60°-70°	3443.1	31.8
70°-80°	1978.0	18.3
80°-90°	701.5	6.5
90°-100°	413.7	3.8
100°-110°	250.0	2.3
110°-120°	187.9	1.7
120°-130°	159.2	1.5
130°-140°	105.7	1.0
140°-150°	99.2	0.9
150°-160°	44.0	0.4
160°-170°	18.2	0.2
170°-180°	6.0	0.1
0°-90°	9543.3	88.1
0°-180°	10827.2	100.0



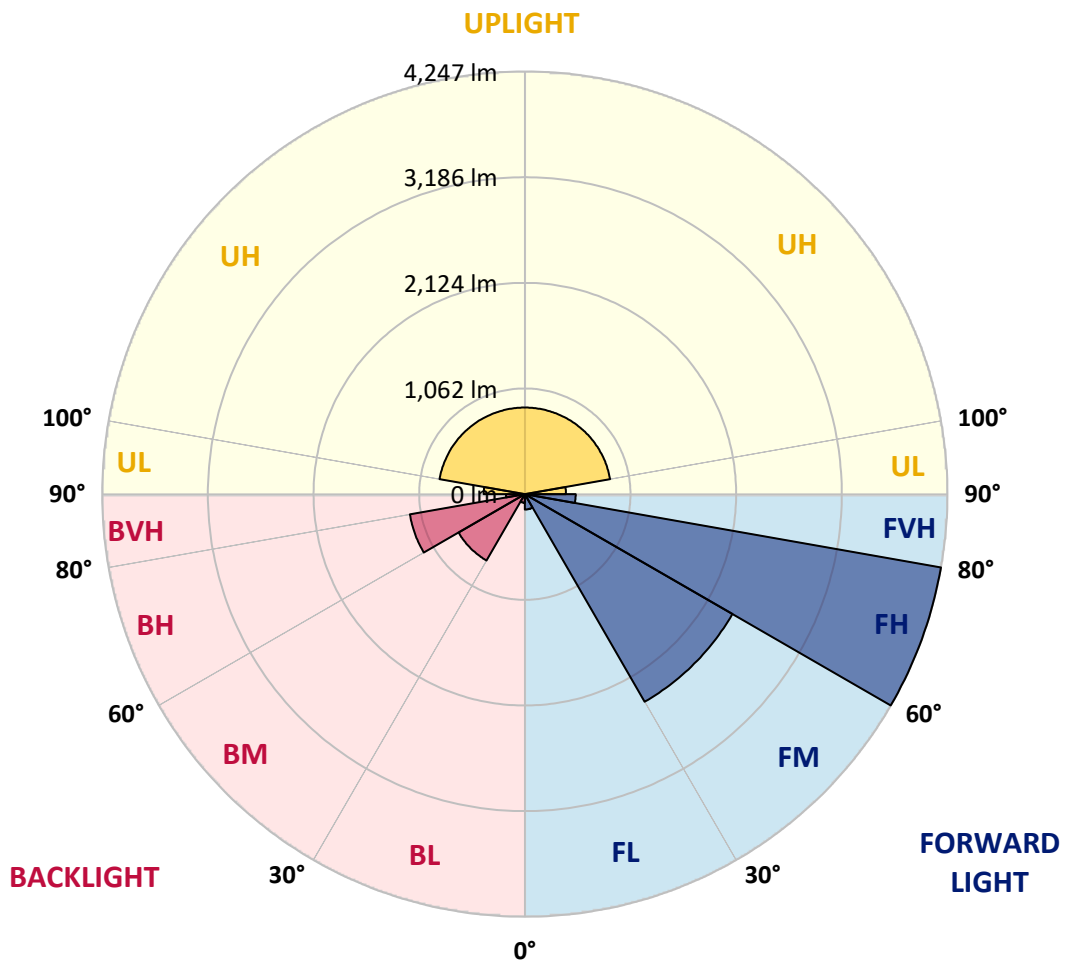
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.1	1.4			
FM (30°-60°)	2409.1	22.3			
FH (60°-80°)	4247.3	39.2			G2/5000
FVH (80°-90°)	511.0	4.7			G4/750
BL (0°-30°)	86.5	0.8	B0/110		
BM (30°-60°)	769.9	7.1	B1/1000		
BH (60°-80°)	1173.8	10.8	B3/2500		G3/2500
BVH (80°-90°)	190.5	1.8			G2/225
UL (90°-100°)	413.7	3.8		U3/500	
UH (100°-180°)	870.2	8.0		U4/1000	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	299.5	297.2	302.9	307.5	313.3	305.2	291.5	305.2	309.8	323.6	333.9
5°	254.7	255.9	261.6	274.2	285.7	283.4	247.8	202.0	188.2	182.4	183.6
7.5°	252.4	251.3	247.8	246.7	253.6	278.8	275.4	242.1	216.9	195.1	173.3
10°	266.2	269.7	273.1	273.1	268.5	252.4	251.3	249.0	239.8	229.5	215.7
12.5°	329.3	333.9	337.3	325.9	311.0	294.9	282.3	261.6	252.4	246.7	236.4
15°	398.2	402.8	397.0	375.2	348.8	319.0	307.5	308.7	296.0	281.1	259.3
17.5°	434.9	432.6	408.5	383.2	362.6	339.6	323.6	313.3	308.7	302.9	281.1
20°	411.9	406.2	391.3	381.0	378.7	366.0	355.7	346.5	340.8	328.2	301.8
22.5°	394.7	394.7	392.4	390.1	403.9	398.2	393.6	381.0	372.9	356.9	317.8
25°	416.5	416.5	417.7	414.2	432.6	432.6	432.6	418.8	408.5	385.5	338.5
27.5°	447.5	446.4	449.8	447.5	463.6	467.0	473.9	463.6	448.7	421.1	361.4
30°	480.8	480.8	484.2	486.5	502.6	510.6	518.6	514.1	495.7	462.4	400.5
32.5°	516.4	515.2	525.5	537.0	546.2	561.1	564.5	576.0	557.7	518.6	457.8
35°	568.0	571.4	599.0	623.1	649.5	658.6	674.7	719.4	701.1	648.3	578.3
37.5°	821.6	804.4	797.5	769.9	766.5	820.4	839.9	882.4	845.7	774.5	667.8
40°	870.9	850.3	841.1	814.7	823.9	935.2	915.7	1068.3	978.8	865.2	796.3
42.5°	820.4	817.0	924.8	945.5	934.0	1110.7	1072.9	1355.1	1259.9	996.0	919.1
45°	990.2	981.1	1027.0	1063.7	1092.4	1410.2	1387.3	1684.5	1643.1	1212.9	1137.1
47.5°	1117.6	1108.4	1161.2	1284.0	1451.5	1795.8	1930.0	2378.7	2238.7	1668.4	1496.3
50°	1498.6	1492.8	1635.1	1767.1	2043.6	2551.9	2920.3	3404.5	3199.1	2330.5	2013.8
52.5°	1858.9	1877.2	2043.6	2297.2	2589.8	3507.7	4033.3	4372.9	4370.6	3035.0	2585.2
55°	2117.0	2179.0	2375.2	2833.0	3239.2	4355.7	5064.8	5316.1	5527.3	4049.3	3148.6
57.5°	2618.5	2726.3	2914.5	3367.8	3892.1	5381.5	6393.6	6352.3	6732.1	5101.6	3761.3
60°	3133.7	3259.9	3323.0	3739.5	4428.0	6369.5	7306.9	7210.6	7592.7	6017.2	4406.2
62.5°	3294.3	3418.2	3480.2	3933.5	4814.7	6929.4	7728.1	7765.9	8003.4	6670.1	4788.3
65°	3395.3	3537.6	3627.1	4035.6	4806.7	7173.8	8068.9	8104.4	8253.6	6951.2	4985.7
67.5°	3376.9	3536.4	3651.2	4017.2	4540.5	6970.7	7983.9	7823.3	8023.0	6750.4	4778.0
70°	3012.1	3150.9	3265.6	3547.9	3790.0	5872.6	6907.6	6642.6	6849.1	5639.7	3944.9
72.5°	2461.3	2518.6	2618.5	2751.6	2872.1	4356.9	5269.1	5041.9	5161.2	4230.6	2955.8
75°	2021.8	2010.3	2099.8	2196.2	2158.3	3183.0	4168.7	3961.0	4072.3	3212.9	2358.0
77.5°	1498.6	1492.8	1622.5	1614.5	1557.1	2204.2	3304.7	3154.3	3169.3	2372.9	1765.9
80°	900.7	918.0	1044.2	1069.4	1001.7	1382.7	2359.2	2288.0	2181.3	1621.3	1238.1
82.5°	632.2	658.6	725.2	752.7	719.4	1009.8	1562.8	1513.5	1387.3	1176.1	872.1
85°	644.9	649.5	657.5	659.8	644.9	906.5	1212.9	1185.3	1177.3	985.7	719.4
87.5°	644.9	655.2	662.1	660.9	634.5	849.1	1118.8	1075.2	1085.5	921.4	695.4
90°	578.3	596.7	595.5	599.0	577.2	767.6	1014.3	978.8	992.5	830.8	632.2
92.5°	472.7	485.4	498.0	522.1	490.0	652.9	857.1	823.9	841.1	706.8	538.2
95°	439.5	450.9	459.0	471.6	439.5	580.6	758.5	718.3	725.2	600.1	455.5
97.5°	355.7	362.6	371.8	374.1	351.1	446.4	577.2	542.7	547.3	465.9	358.0
100°	298.3	304.1	312.1	312.1	297.2	369.5	456.7	438.3	436.0	381.0	302.9
102.5°	282.3	284.6	297.2	294.9	280.0	340.8	413.1	401.6	402.8	353.4	284.6
105°	277.7	277.7	290.3	284.6	271.9	324.7	386.7	383.2	382.1	336.2	273.1
107.5°	273.1	273.1	285.7	280.0	269.7	306.4	363.7	352.3	351.1	320.1	258.2
110°	254.7	258.2	271.9	265.1	257.0	289.2	333.9	325.9	325.9	301.8	246.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	226.0	228.3	241.0	235.2	229.5	257.0	296.0	285.7	286.9	270.8	230.6
115°	211.1	214.6	227.2	219.2	214.6	239.8	274.2	267.4	269.7	254.7	218.0
117.5°	212.3	213.4	222.6	223.8	214.6	235.2	253.6	255.9	259.3	250.1	221.5
120°	258.2	252.4	257.0	251.3	246.7	270.8	292.6	294.9	293.7	276.5	220.3
122.5°	260.5	249.0	261.6	253.6	249.0	275.4	299.5	305.2	299.5	284.6	224.9
125°	207.7	211.1	212.3	214.6	219.2	247.8	260.5	261.6	262.8	258.2	218.0
127.5°	182.4	181.3	175.6	176.7	187.0	212.3	221.5	228.3	223.8	221.5	196.2
130°	174.4	176.7	175.6	175.6	181.3	200.8	207.7	218.0	214.6	210.0	179.0
132.5°	160.6	162.9	173.3	185.9	183.6	190.5	192.8	203.1	204.2	204.2	180.1
135°	152.6	154.9	162.9	179.0	174.4	177.9	176.7	185.9	187.0	188.2	169.8
137.5°	156.1	157.2	152.6	154.9	158.3	173.3	177.9	187.0	187.0	182.4	158.3
140°	164.1	164.1	153.8	150.3	157.2	180.1	189.3	204.2	202.0	193.9	164.1
142.5°	151.5	153.8	159.5	166.4	181.3	244.4	244.4	273.1	282.3	284.6	198.5
145°	197.4	198.5	200.8	204.2	232.9	320.1	291.5	312.1	320.1	328.2	238.7
147.5°	227.2	229.5	227.2	218.0	244.4	274.2	260.5	269.7	278.8	281.1	239.8
150°	177.9	175.6	174.4	173.3	202.0	211.1	199.7	198.5	205.4	211.1	185.9
152.5°	129.7	128.5	127.4	126.2	151.5	145.7	137.7	137.7	140.0	141.1	130.8
155°	114.7	113.6	111.3	112.4	128.5	122.8	115.9	113.6	115.9	114.7	109.0
157.5°	94.1	91.8	91.8	96.4	104.4	97.5	92.9	89.5	90.6	89.5	90.6
160°	78.0	76.9	78.0	83.8	88.4	82.6	78.0	75.7	75.7	78.0	82.6
162.5°	70.0	68.8	70.0	72.3	74.6	68.8	65.4	65.4	66.6	71.1	80.3
165°	60.8	60.8	62.0	63.1	64.3	60.8	59.7	59.7	62.0	68.8	79.2
167.5°	58.5	58.5	58.5	58.5	58.5	57.4	56.2	59.7	62.0	65.4	72.3
170°	57.4	56.2	57.4	57.4	57.4	57.4	57.4	60.8	60.8	62.0	65.4
172.5°	58.5	58.5	58.5	59.7	62.0	63.1	62.0	64.3	63.1	63.1	63.1
175°	59.7	59.7	60.8	62.0	63.1	64.3	65.4	65.4	65.4	66.6	66.6
177.5°	59.7	59.7	60.8	62.0	63.1	60.8	58.5	57.4	56.2	56.2	56.2
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	324.7	296.0	255.9	273.1	325.9	315.5	262.8	230.6	232.9	255.9	258.2
5°	189.3	195.1	221.5	276.5	286.9	237.5	191.6	184.7	222.6	275.4	285.7
7.5°	171.0	171.0	192.8	268.5	301.8	247.8	187.0	168.7	197.4	241.0	247.8
10°	206.5	199.7	202.0	229.5	242.1	198.5	167.5	159.5	175.6	181.3	179.0
12.5°	232.9	237.5	259.3	253.6	198.5	161.8	151.5	150.3	159.5	165.2	164.1
15°	250.1	242.1	226.0	207.7	189.3	168.7	153.8	144.6	134.3	129.7	129.7
17.5°	266.2	250.1	221.5	204.2	185.9	171.0	157.2	143.4	138.8	140.0	140.0
20°	285.7	266.2	239.8	220.3	198.5	177.9	160.6	145.7	142.3	143.4	142.3
22.5°	300.6	283.4	255.9	230.6	207.7	184.7	167.5	152.6	148.0	146.9	146.9
25°	319.0	304.1	275.4	244.4	216.9	195.1	180.1	162.9	154.9	152.6	152.6
27.5°	343.1	330.5	298.3	265.1	232.9	207.7	191.6	173.3	161.8	157.2	156.1
30°	379.8	362.6	327.0	285.7	252.4	226.0	206.5	183.6	169.8	161.8	160.6
32.5°	434.9	413.1	366.0	314.4	274.2	246.7	222.6	193.9	176.7	167.5	166.4
35°	551.9	527.8	468.2	395.9	337.3	281.1	243.3	205.4	183.6	172.1	171.0
37.5°	625.4	581.8	509.5	444.1	372.9	339.6	291.5	241.0	192.8	177.9	175.6
40°	732.1	675.8	585.2	496.8	371.8	370.6	338.5	293.7	227.2	188.2	184.7
42.5°	811.2	739.0	625.4	526.7	375.2	385.5	358.0	319.0	269.7	219.2	213.4
45°	973.0	881.2	701.1	553.1	379.8	402.8	375.2	333.9	290.3	254.7	251.3
47.5°	1276.0	1148.6	848.0	603.6	431.4	460.1	410.8	362.6	320.1	284.6	276.5
50°	1699.4	1546.8	1025.8	648.3	519.8	585.2	504.9	431.4	381.0	353.4	345.4
52.5°	2196.2	2025.2	1137.1	718.3	626.5	739.0	650.6	564.5	498.0	502.6	498.0
55°	2750.4	2548.5	1234.7	823.9	763.1	909.9	813.5	739.0	703.4	803.2	809.0
57.5°	3285.1	3069.4	1295.5	935.2	915.7	1107.3	994.8	942.1	955.8	1248.4	1317.3
60°	3795.8	3455.0	1342.5	1039.6	1044.2	1262.2	1176.1	1165.8	1208.3	1583.5	1687.9
62.5°	4090.7	3652.3	1340.2	1107.3	1124.5	1357.4	1281.7	1287.4	1319.6	1638.6	1725.8
65°	4291.5	3752.2	1317.3	1141.7	1158.9	1391.9	1294.3	1249.6	1228.9	1446.9	1539.9
67.5°	4171.0	3559.4	1262.2	1111.9	1134.8	1336.8	1215.1	1102.7	1067.1	1185.3	1240.4
70°	3526.1	2974.2	1124.5	1010.9	1025.8	1127.9	1024.7	901.9	866.3	928.3	953.5
72.5°	2664.4	2283.4	1008.6	934.0	898.5	932.9	831.9	703.4	695.4	728.6	733.2
75°	2128.5	1792.3	919.1	842.2	747.0	782.6	660.9	523.2	512.9	515.2	503.7
77.5°	1604.1	1333.3	773.4	663.2	565.7	624.2	491.1	361.4	344.2	337.3	324.7
80°	1098.1	926.0	525.5	444.1	401.6	457.8	350.0	265.1	263.9	261.6	247.8
82.5°	779.1	714.9	429.1	377.5	340.8	360.3	304.1	247.8	242.1	243.3	228.3
85°	681.6	647.2	414.2	382.1	346.5	345.4	290.3	231.8	229.5	230.6	216.9
87.5°	651.8	613.9	405.0	364.9	330.5	313.3	255.9	204.2	210.0	213.4	200.8
90°	584.1	545.0	367.2	325.9	292.6	262.8	216.9	184.7	193.9	196.2	184.7
92.5°	492.3	452.1	285.7	261.6	245.6	241.0	203.1	175.6	182.4	183.6	174.4
95°	416.5	379.8	249.0	230.6	219.2	218.0	183.6	159.5	162.9	161.8	153.8
97.5°	335.1	308.7	218.0	200.8	188.2	181.3	157.2	138.8	143.4	145.7	140.0
100°	285.7	270.8	203.1	188.2	173.3	164.1	143.4	128.5	133.1	137.7	133.1
102.5°	268.5	257.0	199.7	183.6	167.5	156.1	136.5	120.5	122.8	128.5	125.1
105°	254.7	244.4	193.9	176.7	161.8	149.2	133.1	113.6	112.4	118.2	117.0
107.5°	239.8	230.6	190.5	169.8	153.8	142.3	127.4	109.0	104.4	107.9	106.7
110°	231.8	222.6	183.6	161.8	144.6	134.3	120.5	105.6	99.8	101.0	101.0



REPORT NUMBER: P856230

CATALOG NUMBER: FFX-CLB-70-750-U-FR-T3-UPLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	215.7	205.4	168.7	148.0	134.3	125.1	111.3	101.0	94.1	96.4	97.5
115°	205.4	191.6	154.9	140.0	125.1	117.0	109.0	99.8	91.8	91.8	92.9
117.5°	212.3	185.9	144.6	133.1	125.1	122.8	120.5	106.7	90.6	89.5	89.5
120°	203.1	187.0	157.2	153.8	145.7	138.8	123.9	105.6	88.4	86.1	86.1
122.5°	198.5	195.1	177.9	166.4	151.5	137.7	115.9	96.4	84.9	82.6	82.6
125°	196.2	192.8	172.1	150.3	130.8	117.0	103.3	90.6	83.8	80.3	80.3
127.5°	180.1	164.1	138.8	126.2	113.6	107.9	96.4	88.4	80.3	75.7	75.7
130°	166.4	151.5	129.7	115.9	105.6	101.0	92.9	84.9	76.9	72.3	71.1
132.5°	164.1	149.2	126.2	109.0	99.8	95.2	90.6	81.5	72.3	67.7	66.6
135°	152.6	135.4	112.4	103.3	97.5	94.1	90.6	79.2	70.0	65.4	65.4
137.5°	141.1	123.9	106.7	102.1	97.5	94.1	83.8	72.3	65.4	62.0	62.0
140°	142.3	122.8	109.0	105.6	98.7	88.4	79.2	71.1	65.4	60.8	59.7
142.5°	151.5	127.4	110.2	99.8	95.2	89.5	86.1	76.9	65.4	57.4	55.1
145°	166.4	137.7	123.9	119.3	111.3	101.0	88.4	71.1	59.7	52.8	51.6
147.5°	183.6	154.9	138.8	126.2	110.2	92.9	75.7	62.0	52.8	50.5	49.3
150°	159.5	132.0	119.3	102.1	88.4	74.6	62.0	55.1	50.5	49.3	49.3
152.5°	120.5	98.7	88.4	80.3	72.3	65.4	58.5	53.9	50.5	48.2	48.2
155°	104.4	92.9	82.6	74.6	66.6	59.7	53.9	51.6	48.2	48.2	47.0
157.5°	91.8	86.1	72.3	65.4	59.7	56.2	53.9	50.5	49.3	48.2	48.2
160°	83.8	80.3	66.6	60.8	57.4	55.1	55.1	52.8	49.3	48.2	48.2
162.5°	81.5	78.0	64.3	58.5	55.1	56.2	58.5	57.4	52.8	50.5	50.5
165°	80.3	78.0	65.4	57.4	55.1	56.2	62.0	63.1	57.4	53.9	52.8
167.5°	73.4	72.3	68.8	63.1	59.7	59.7	63.1	64.3	62.0	62.0	60.8
170°	66.6	66.6	67.7	68.8	66.6	63.1	60.8	60.8	64.3	67.7	68.8
172.5°	64.3	65.4	67.7	71.1	71.1	66.6	63.1	62.0	65.4	70.0	71.1
175°	67.7	68.8	70.0	70.0	67.7	66.6	65.4	64.3	66.6	71.1	72.3
177.5°	56.2	56.2	57.4	57.4	56.2	57.4	56.2	53.9	53.9	53.9	53.9
180°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-5

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-750-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-750-U-FR-T5.

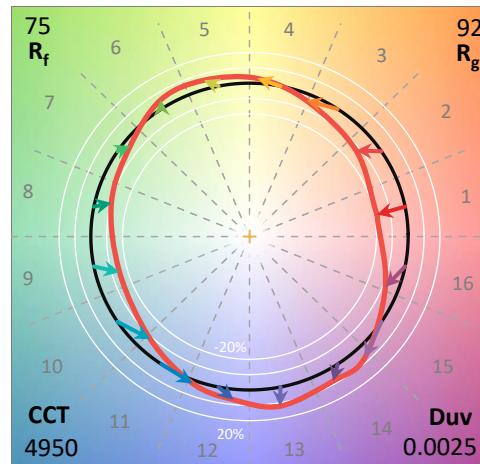
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2406-133-5  
 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-100-750-U-FR-T5**  
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

**Spectral Parameters**

CCT (K): 4950  
 CIE u': 0.2102  
 CIE v': 0.4882  
 Duv: 0.0025  
 CIE x: 0.3471  
 CIE y: 0.3583  
 CIE z: 0.2946  
 Peak Wavelength (nm): 452  
 Dominant Wavelength (nm): 571  
 Purity: 11.64963  
 Rf: 74.8  
 Rg: 92.4

CRI (Ra):	73.0		
R1:	69.1	R9:	-35.4
R2:	80.1	R10:	51.9
R3:	87.3	R11:	66.1
R4:	70.6	R12:	40.1
R5:	69.4	R13:	71.5
R6:	71.2	R14:	93.0
R7:	82.5	R15:	62.2
R8:	53.6		



**Test Conditions**

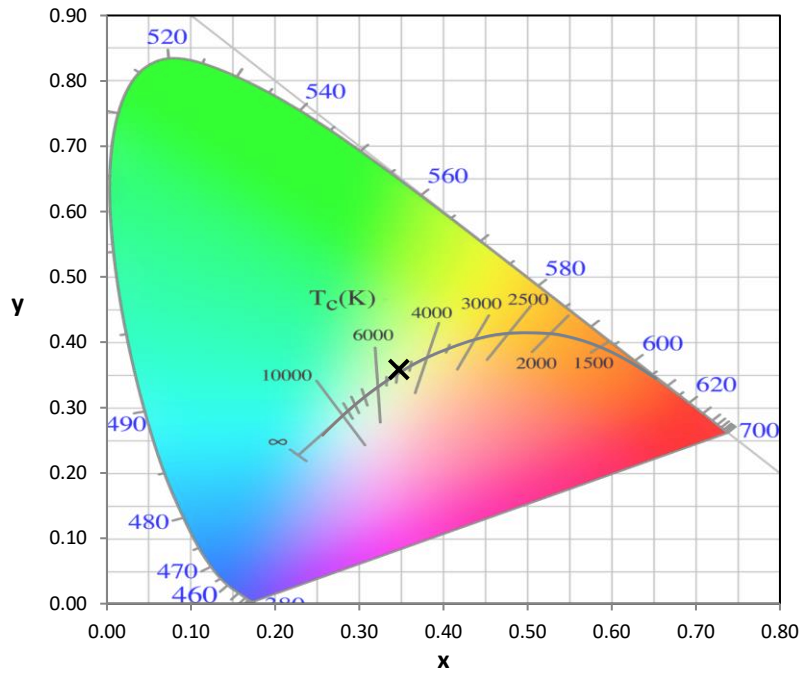
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

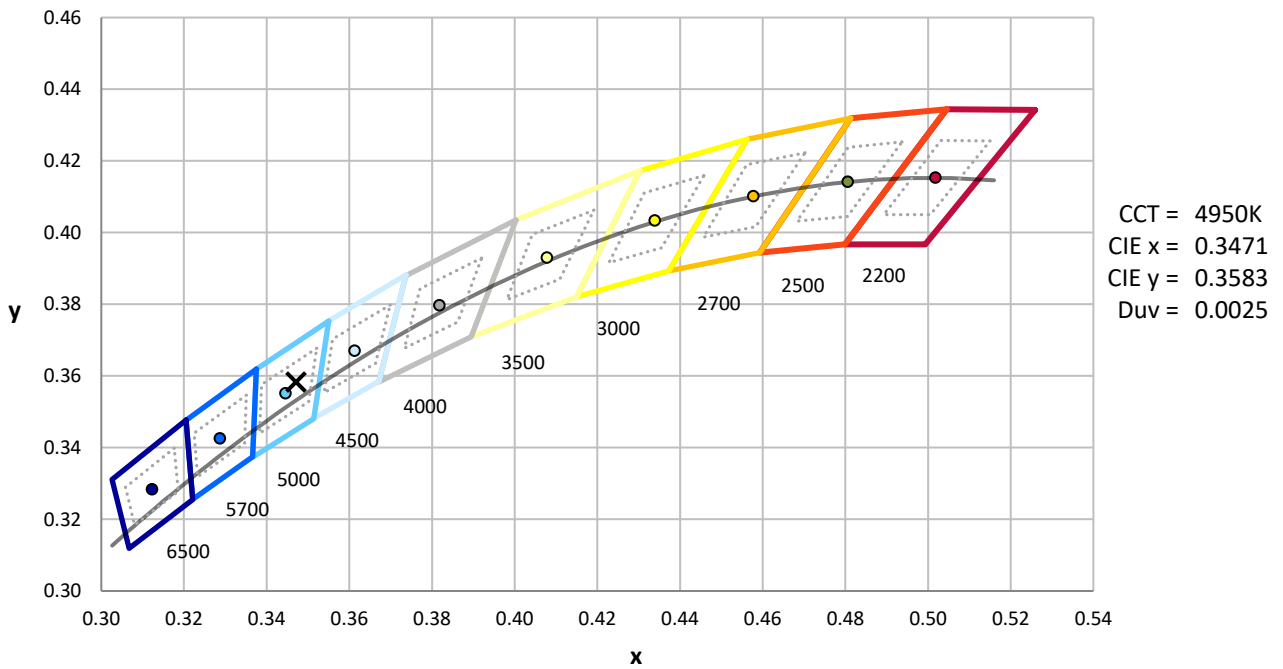
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



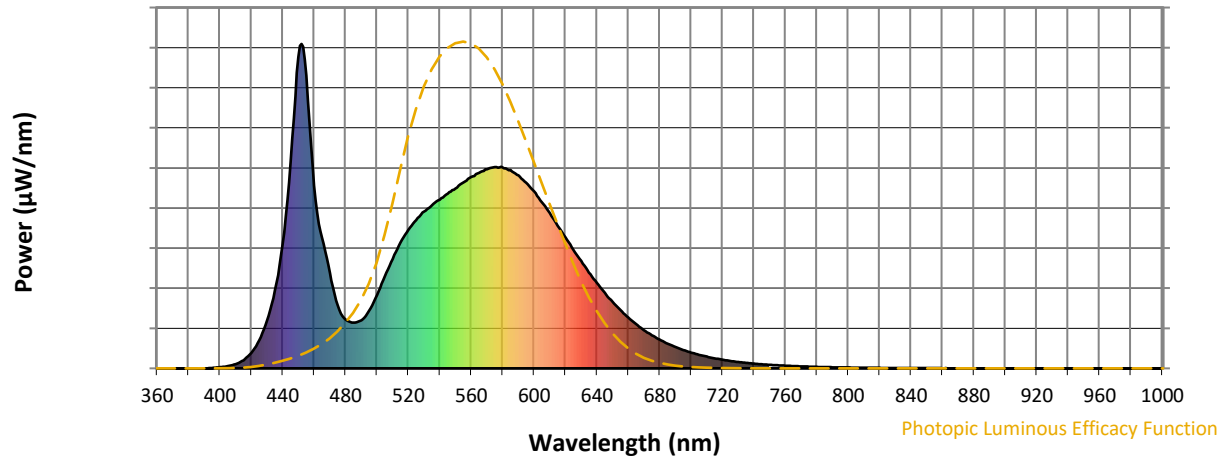
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-5

**Photopic Flux vs. Wavelength**

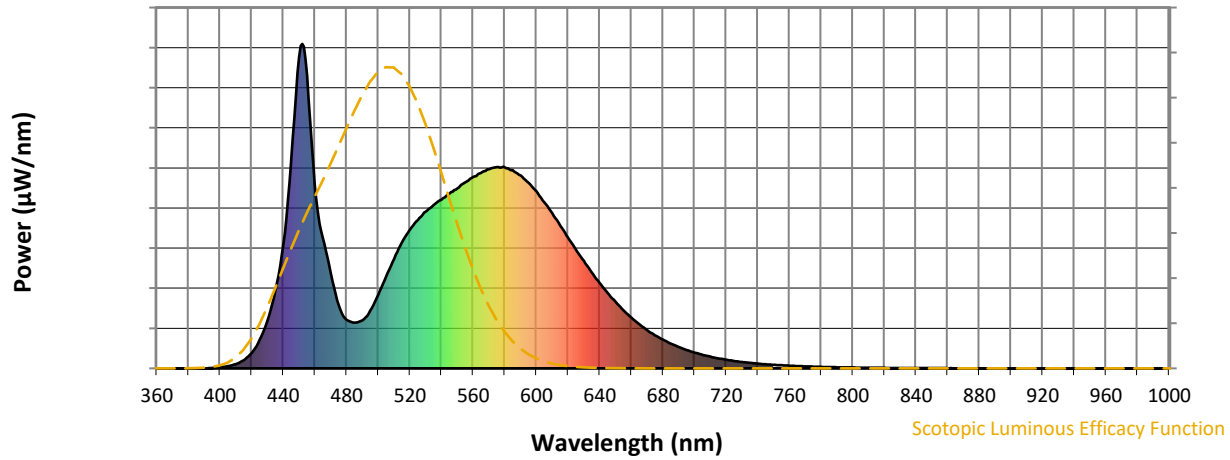


**Photopic Lumens: NR**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2406-133-5

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

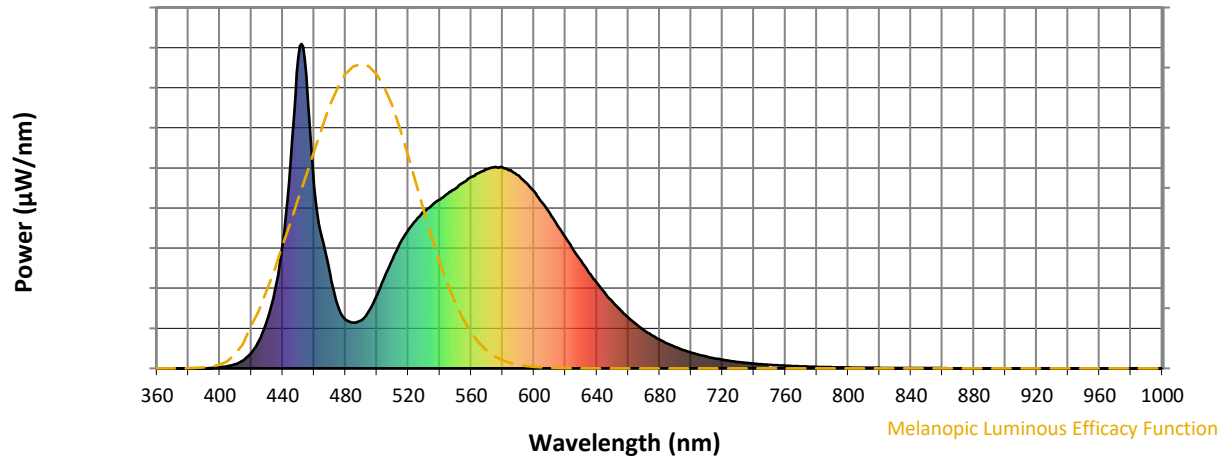
**S/P: 1.8**

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	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			



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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

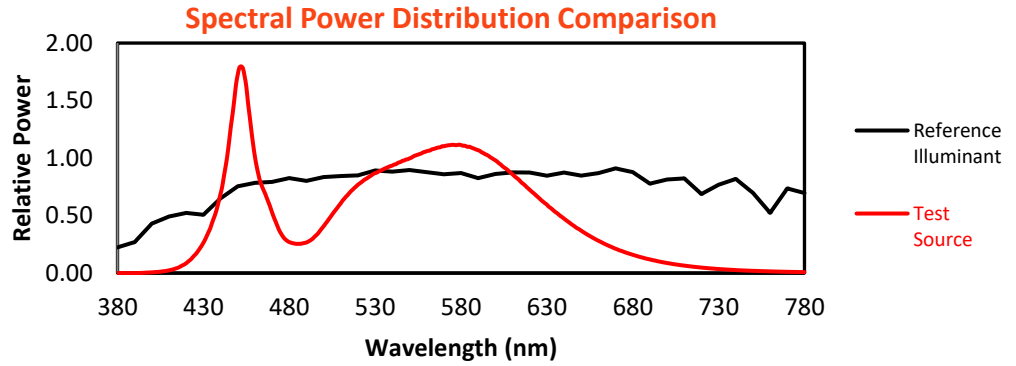
$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	NR	630	331	NR	760	8	NR	890	0	NR
375	0	NR	505	283	NR	635	295	NR	765	7	NR	895	0	NR
380	0	NR	510	338	NR	640	263	NR	770	6	NR	900	0	NR
385	0	NR	515	387	NR	645	232	NR	775	5	NR	905	0	NR
390	0	NR	520	428	NR	650	205	NR	780	5	NR	910	0	NR
395	1	NR	525	457	NR	655	179	NR	785	4	NR	915	0	NR
400	4	NR	530	484	NR	660	156	NR	790	3	NR	920	0	NR
405	7	NR	535	503	NR	665	136	NR	795	3	NR	925	0	NR
410	13	NR	540	520	NR	670	118	NR	800	3	NR	930	0	NR
415	25	NR	545	538	NR	675	102	NR	805	2	NR	935	0	NR
420	48	NR	550	555	NR	680	89	NR	810	2	NR	940	0	NR
425	87	NR	555	573	NR	685	76	NR	815	2	NR	945	0	NR
430	147	NR	560	590	NR	690	66	NR	820	2	NR	950	0	NR
435	242	NR	565	603	NR	695	56	NR	825	1	NR	955	0	NR
440	384	NR	570	614	NR	700	49	NR	830	1	NR	960	0	NR
445	638	NR	575	621	NR	705	42	NR	835	1	NR	965	0	NR
450	960	NR	580	619	NR	710	36	NR	840	1	NR	970	0	NR
455	902	NR	585	611	NR	715	31	NR	845	1	NR	975	0	NR
460	564	NR	590	594	NR	720	27	NR	850	1	NR	980	0	NR
465	402	NR	595	572	NR	725	23	NR	855	1	NR	985	0	NR
470	293	NR	600	546	NR	730	20	NR	860	1	NR	990	0	NR
475	194	NR	605	511	NR	735	17	NR	865	0	NR	995	0	NR
480	150	NR	610	478	NR	740	14	NR	870	0	NR	1000	0	NR
485	141	NR	615	440	NR	745	13	NR	875	0	NR			

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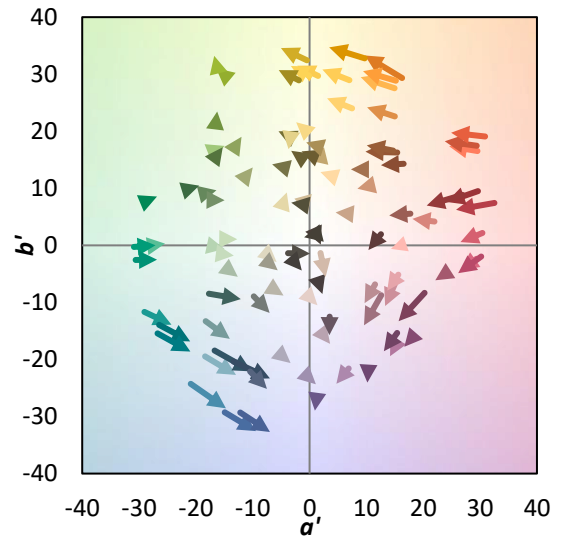
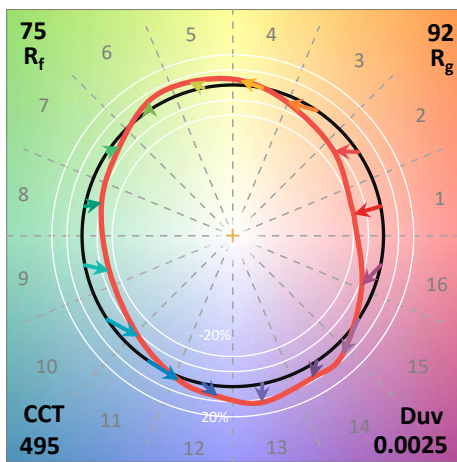
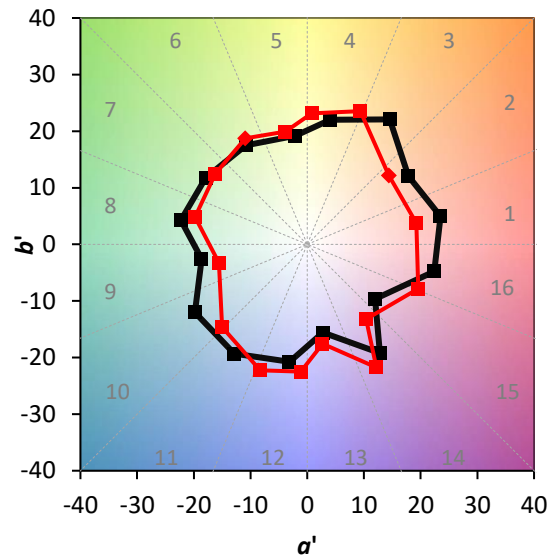
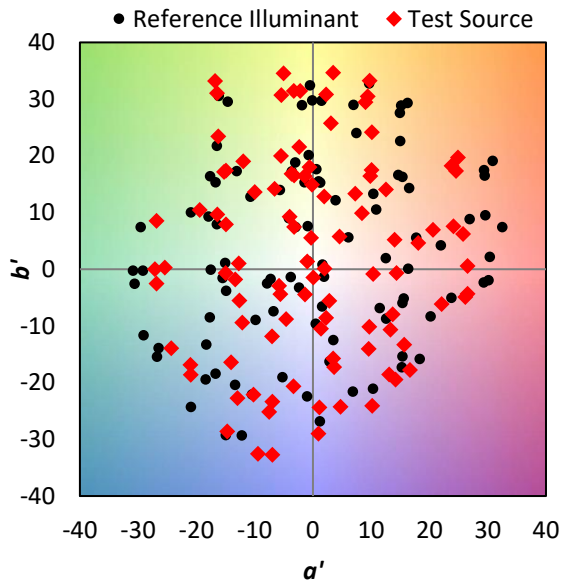
TM-30-18

**Summary**

$R_f = 74.8$   
 $R_g = 92.4$   
 CIE  $R_a = 73.0$   
 $R_g = -35.4$



**Color Vector Graphics**

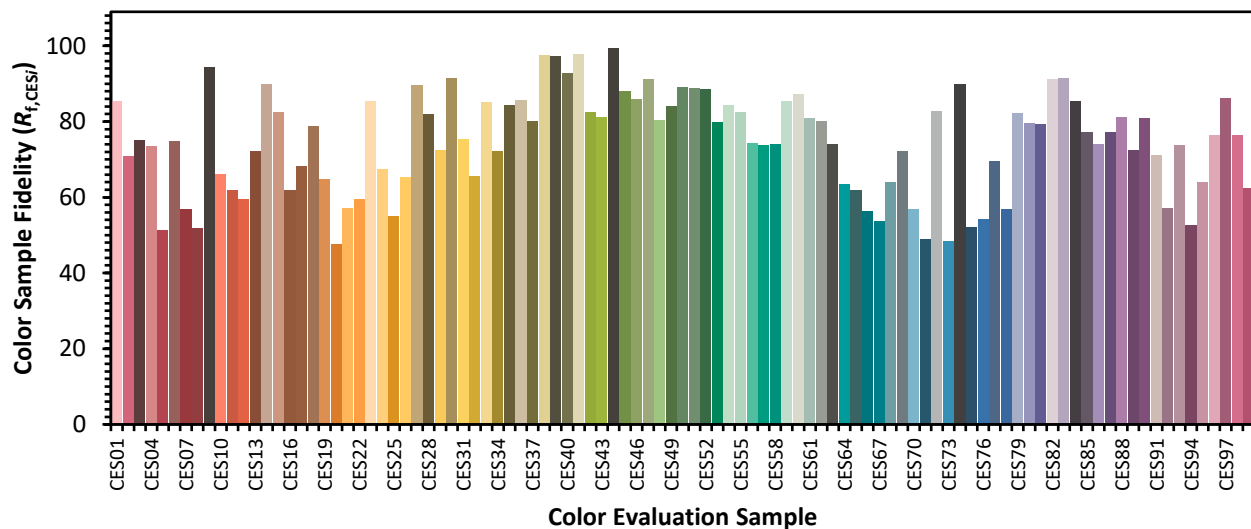


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

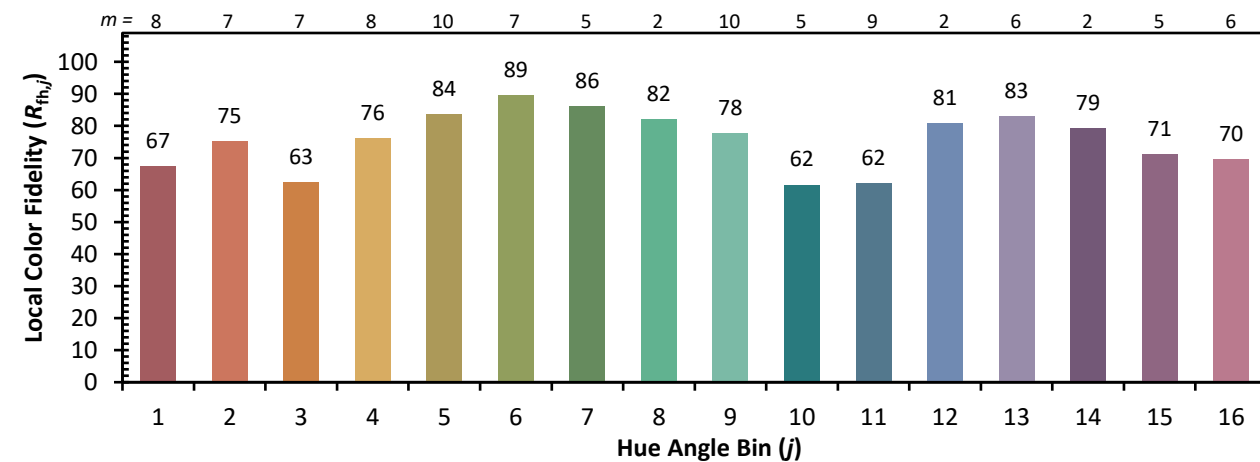
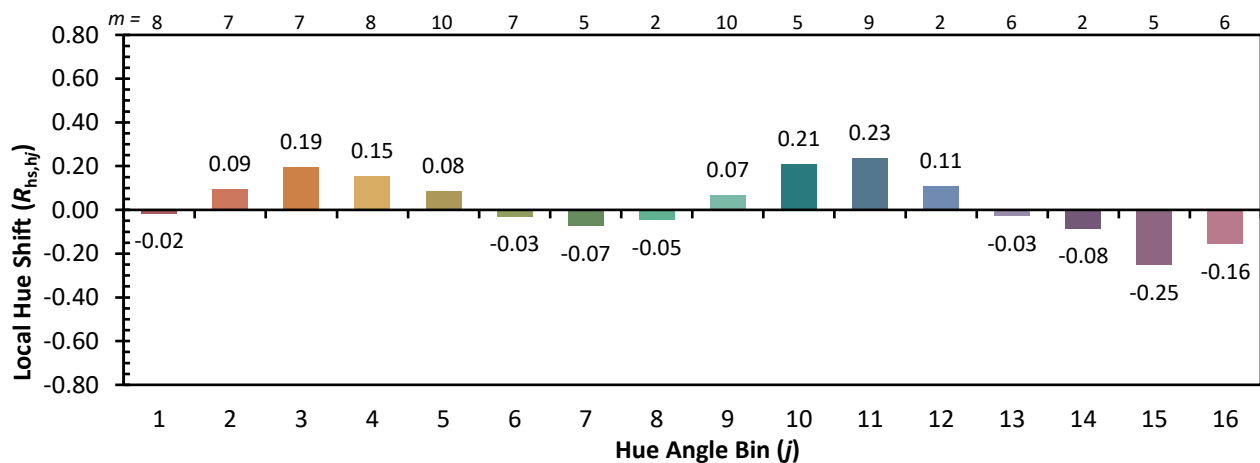
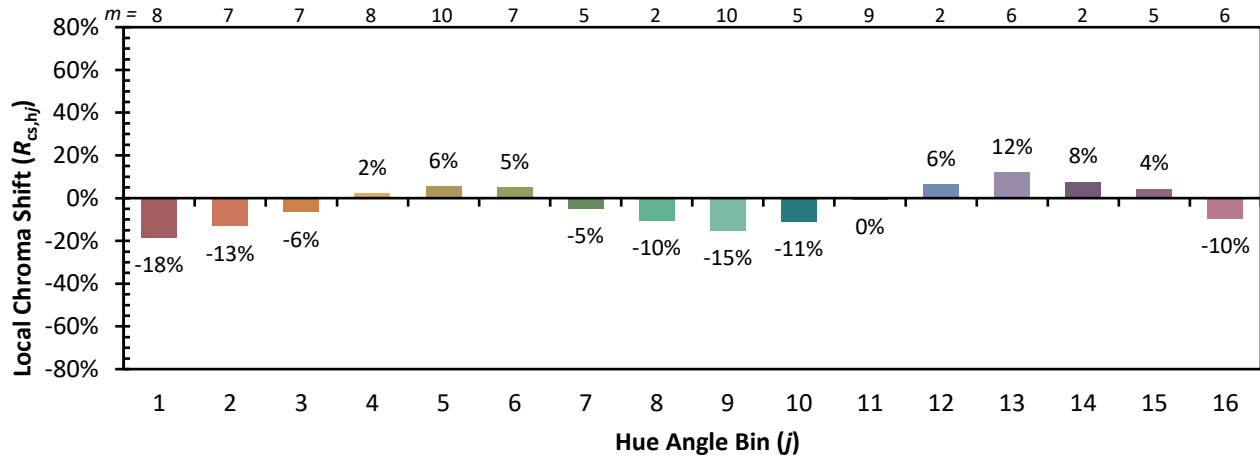
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 91
CES08 = 38	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 72	CES59 = 85	CES84 = 85
CES10 = 73	CES35 = 84	CES60 = 87	CES85 = 77
CES11 = 56	CES36 = 86	CES61 = 81	CES86 = 74
CES12 = 62	CES37 = 80	CES62 = 80	CES87 = 77
CES13 = 41	CES38 = 98	CES63 = 74	CES88 = 81
CES14 = 74	CES39 = 97	CES64 = 63	CES89 = 72
CES15 = 70	CES40 = 93	CES65 = 62	CES90 = 81
CES16 = 46	CES41 = 98	CES66 = 56	CES91 = 71
CES17 = 49	CES42 = 83	CES67 = 54	CES92 = 57
CES18 = 55	CES43 = 81	CES68 = 64	CES93 = 74
CES19 = 71	CES44 = 99	CES69 = 72	CES94 = 53
CES20 = 64	CES45 = 88	CES70 = 57	CES95 = 64
CES21 = 85	CES46 = 86	CES71 = 49	CES96 = 76
CES22 = 77	CES47 = 91	CES72 = 83	CES97 = 86
CES23 = 91	CES48 = 80	CES73 = 48	CES98 = 77
CES24 = 90	CES49 = 84	CES74 = 90	CES99 = 62
CES25 = 71	CES50 = 89	CES75 = 52	



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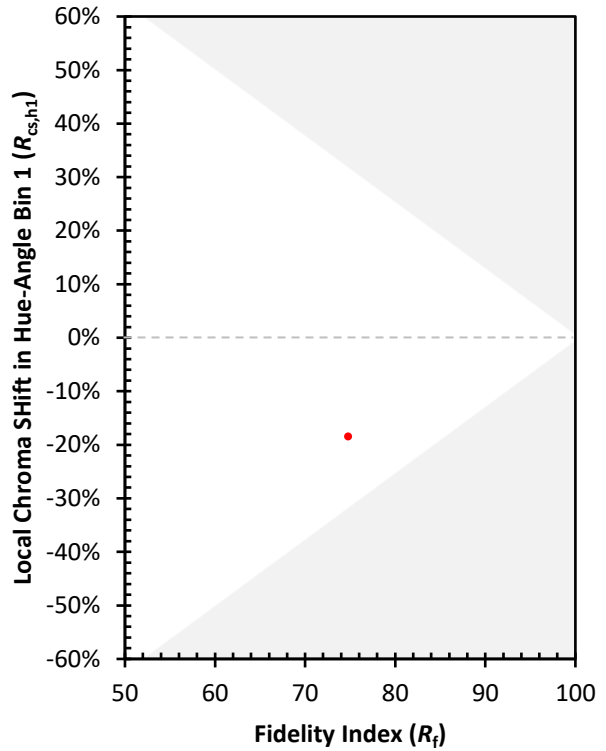
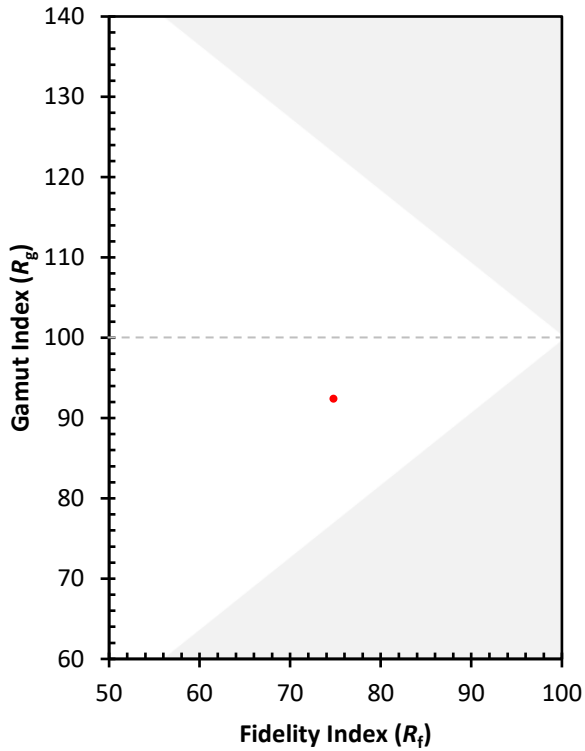
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)