

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: P856144

Luminaire Tested: **FFX-CLB-30-750-U-FR-T3**

Issue Date: 07/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856144  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: FFX-CLB-30-750-U-FR-T3  
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS  
Light Source: (4) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

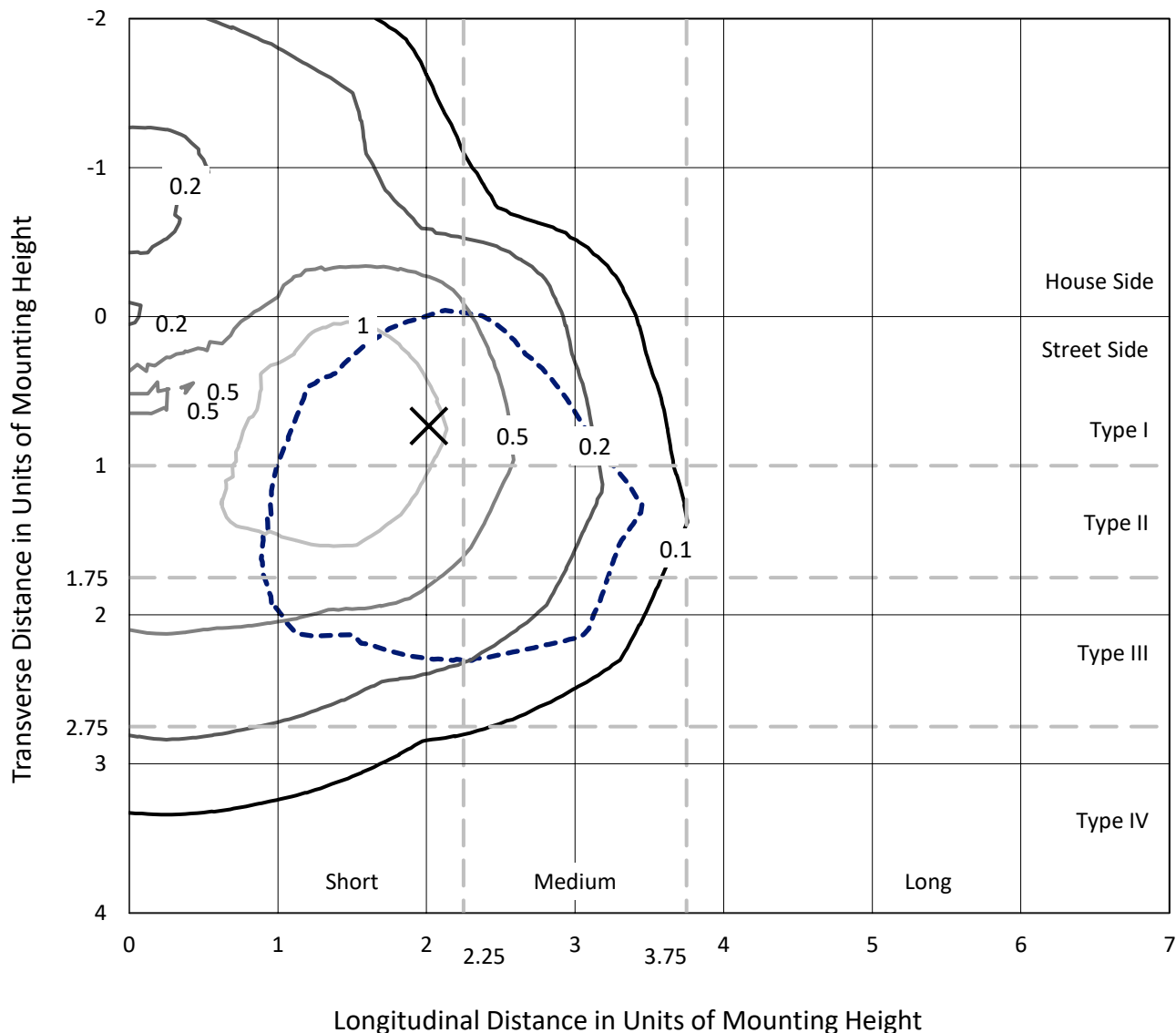
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4820.3 lumens  
Efficiency: N/A  
Efficacy: 158.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')  
IES Classification: Type III - Short  
BUG Rating: B1 - U4 - 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

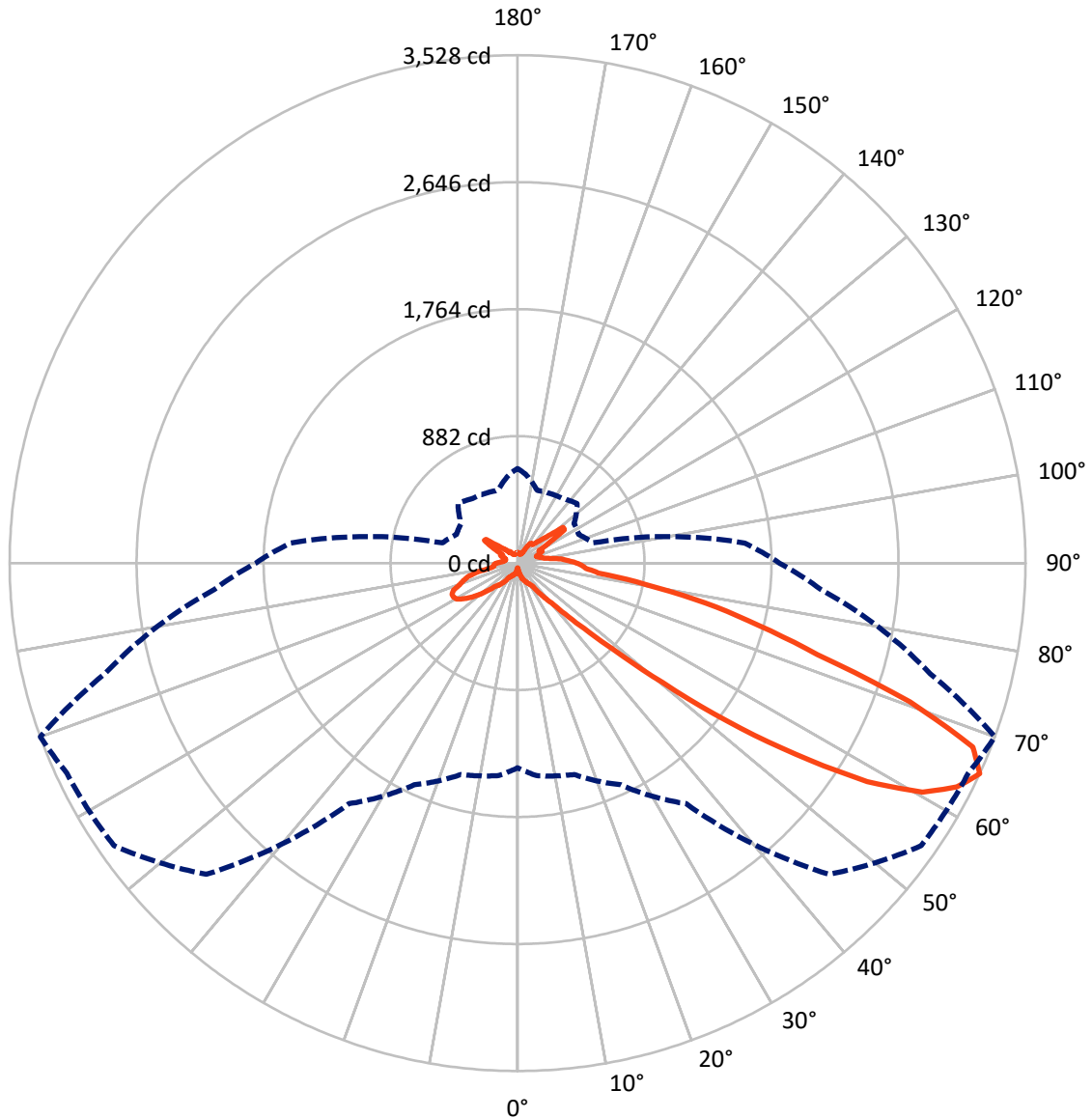
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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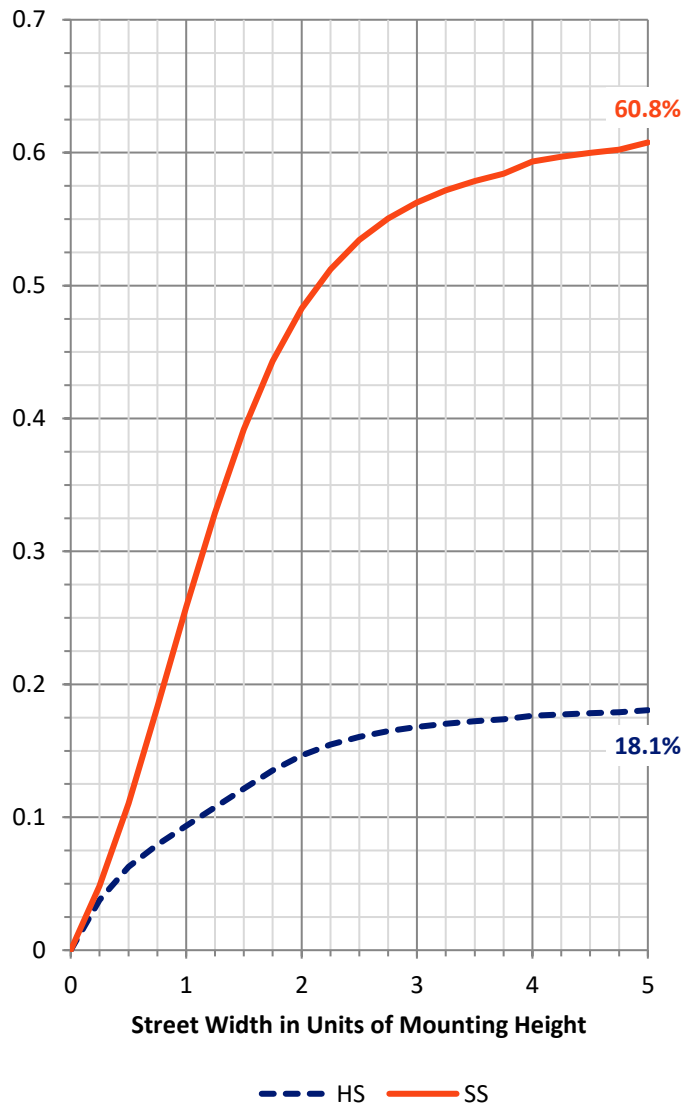
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	908.0	323.9	1231.9
	% Fixture	18.8	6.7	25.6
<b>Street Side</b>	Lumens	3027.9	560.5	3588.4
	% Fixture	62.8	11.6	74.4
<b>Total</b>	Lumens	3935.9	884.5	4820.3
	% Fixture	81.7	18.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	25.3	0.5
20°-30°	53.6	1.1
30°-40°	109.2	2.3
40°-50°	277.6	5.8
50°-60°	892.1	18.5
60°-70°	1455.9	30.2
70°-80°	828.8	17.2
80°-90°	288.4	6.0
90°-100°	179.5	3.7
100°-110°	114.3	2.4
110°-120°	125.7	2.6
120°-130°	212.6	4.4
130°-140°	125.4	2.6
140°-150°	67.5	1.4
150°-160°	34.1	0.7
160°-170°	18.7	0.4
170°-180°	6.7	0.1
0°-90°	3935.9	81.7
0°-180°	4820.3	100.0

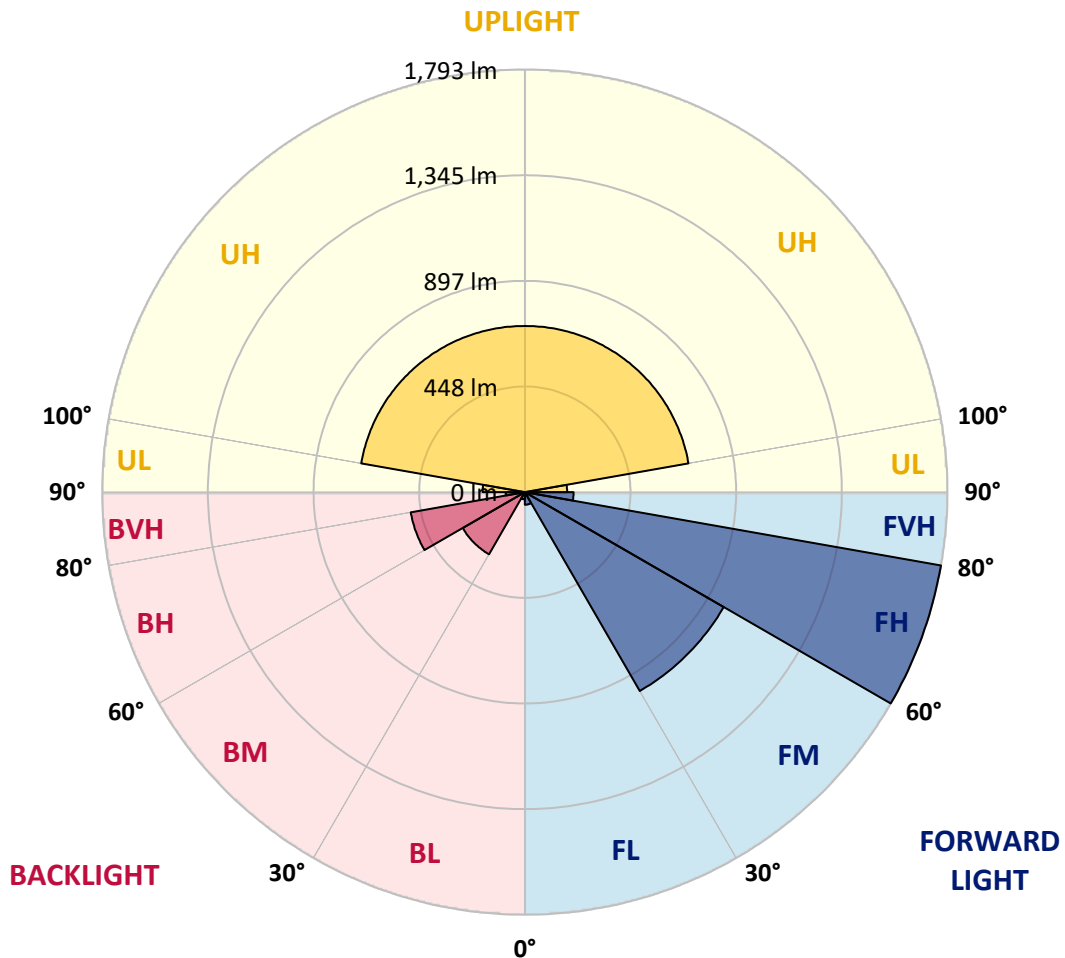


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	53.5	1.1			
FM (30°-60°)	974.5	20.2			
FH (60°-80°)	1793.1	37.2			G1/1800
FVH (80°-90°)	206.8	4.3			G2/225
BL (0°-30°)	30.5	0.6	B0/110		
BM (30°-60°)	304.3	6.3	B1/1000		
BH (60°-80°)	491.6	10.2	B1/500		G1/500
BVH (80°-90°)	81.6	1.7			G1/100
UL (90°-100°)	179.5	3.7		U3/500	
UH (100°-180°)	705.0	14.6		U4/1000	

**BUG Rating: B1-U4-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	38.2	38.2	39.2	39.2	39.2	38.2	37.8	36.8	36.8	36.8	36.3
5°	49.7	49.2	49.7	51.2	51.7	50.2	49.2	47.7	47.7	47.2	47.2
7.5°	67.1	66.6	65.6	64.1	64.6	66.1	68.1	64.1	63.1	60.6	59.6
10°	83.9	83.0	83.9	81.5	79.0	75.5	77.5	76.5	74.5	72.0	70.0
12.5°	102.3	102.8	104.8	102.8	98.8	93.4	92.4	89.9	87.9	87.4	84.4
15°	121.2	121.7	123.7	123.2	119.2	111.8	108.8	106.3	105.3	102.3	95.9
17.5°	131.1	131.6	132.1	132.6	130.1	124.2	119.7	115.2	113.8	112.8	104.8
20°	136.1	135.1	136.1	138.1	140.1	135.1	130.6	128.2	126.7	123.2	112.8
22.5°	144.1	143.1	142.6	144.1	150.0	146.5	142.1	139.6	138.1	133.6	117.7
25°	152.5	151.5	153.0	152.0	159.5	158.0	153.5	151.0	149.0	143.6	125.2
27.5°	161.9	160.9	162.4	161.4	167.4	168.4	165.4	163.4	160.4	152.5	130.6
30°	169.9	168.9	170.4	169.9	175.8	179.3	177.8	177.3	172.9	163.4	140.1
32.5°	176.3	175.8	179.3	180.8	182.3	190.2	189.3	193.7	188.8	177.3	154.0
35°	191.2	192.7	202.2	212.1	213.6	229.5	231.5	247.9	242.9	228.0	199.7
37.5°	295.6	290.1	280.7	271.2	267.7	298.5	303.0	319.4	307.0	279.2	233.5
40°	314.9	306.0	295.1	287.6	288.6	343.7	334.3	396.4	361.1	319.4	285.1
42.5°	299.0	296.1	334.3	352.2	339.3	419.7	403.8	522.1	481.8	379.5	344.2
45°	375.0	369.1	382.5	400.4	404.3	552.4	541.4	665.1	648.7	474.4	441.6
47.5°	429.2	423.7	441.6	502.2	554.4	714.3	773.9	952.2	894.6	674.1	598.1
50°	591.6	590.6	645.8	717.8	809.2	1039.2	1197.6	1397.8	1304.9	954.2	820.1
52.5°	752.1	754.0	821.6	949.3	1044.1	1450.5	1675.5	1815.6	1828.0	1244.3	1063.0
55°	873.3	885.7	967.1	1181.2	1324.8	1816.6	2108.6	2217.4	2341.6	1681.4	1315.8
57.5°	1109.7	1128.6	1206.1	1415.7	1616.4	2272.6	2667.0	2678.9	2864.2	2166.3	1587.1
60°	1316.3	1360.6	1387.9	1578.1	1851.8	2708.2	3081.7	3057.9	3231.7	2568.1	1862.3
62.5°	1380.4	1431.1	1456.9	1659.6	2038.1	2952.6	3275.5	3305.3	3425.0	2850.3	2030.6
65°	1422.1	1481.8	1520.5	1699.8	2040.1	3056.9	3422.5	3454.3	3528.3	2968.5	2114.6
67.5°	1400.8	1476.8	1526.5	1685.9	1932.8	2976.4	3393.2	3332.1	3410.6	2869.6	2020.7
70°	1223.0	1302.4	1352.6	1471.3	1615.9	2502.5	2925.3	2822.9	2892.0	2395.2	1661.6
72.5°	996.4	1035.7	1066.5	1131.6	1218.0	1845.9	2222.9	2137.9	2179.2	1802.1	1245.3
75°	818.6	830.5	868.8	906.0	920.4	1350.1	1760.9	1683.4	1731.6	1372.0	991.0
77.5°	594.6	601.5	656.2	662.1	658.7	926.4	1387.9	1319.8	1335.2	1019.8	739.6
80°	345.2	358.6	430.2	426.7	420.7	570.7	977.1	949.8	902.1	692.4	512.1
82.5°	243.4	256.8	289.6	297.0	293.1	409.8	634.3	616.4	564.8	481.8	354.2
85°	256.3	257.8	259.3	262.8	256.3	365.6	485.8	476.9	477.4	398.4	292.1
87.5°	252.8	258.8	261.3	262.8	256.3	347.2	451.5	440.1	445.6	378.5	283.6
90°	222.0	233.0	234.0	236.4	233.0	310.0	405.3	394.4	401.4	341.3	258.3
92.5°	181.3	187.3	194.2	203.7	199.7	265.3	344.7	336.8	345.2	295.6	227.0
95°	171.9	178.3	182.8	189.3	183.3	241.9	311.5	295.6	302.5	258.8	195.7
97.5°	142.1	147.5	151.5	154.0	149.5	190.7	238.9	228.0	227.5	200.2	156.5
100°	121.2	124.7	128.2	130.6	126.7	158.0	189.3	185.3	186.3	165.4	134.6
102.5°	115.2	117.2	122.7	123.2	118.7	144.1	170.4	168.9	170.9	153.0	126.2
105°	112.8	114.2	118.7	117.2	113.3	134.6	157.0	158.0	158.0	142.6	118.2
107.5°	105.3	107.8	112.8	110.3	108.3	124.2	144.5	141.1	142.1	132.6	112.3
110°	104.3	106.3	111.3	109.3	107.8	121.2	139.1	138.1	139.6	131.1	115.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	129.6	127.7	131.6	127.7	130.1	141.6	160.4	158.5	162.9	159.9	144.1
115°	159.9	160.9	164.9	157.0	159.5	170.9	181.3	184.8	188.8	184.3	167.9
117.5°	148.0	156.5	151.5	150.5	148.5	157.5	156.0	164.9	168.9	165.4	159.0
120°	158.5	168.9	154.5	147.0	144.1	166.4	177.3	176.8	173.9	166.9	153.5
122.5°	236.9	238.4	239.4	261.8	253.8	275.7	282.1	273.7	273.7	282.6	255.3
125°	369.6	371.1	370.1	380.0	374.5	395.4	403.8	403.3	398.4	393.9	367.1
127.5°	373.5	373.5	370.1	364.6	369.6	389.9	390.4	409.3	402.9	390.9	366.1
130°	260.8	262.8	275.2	279.2	286.1	290.6	285.6	302.0	305.0	303.0	286.1
132.5°	216.1	219.6	233.0	237.9	242.4	242.9	240.9	253.8	256.8	256.8	249.4
135°	186.8	190.7	192.2	189.8	196.2	201.2	205.2	215.6	214.6	212.6	206.1
137.5°	162.9	164.4	159.9	154.5	158.0	172.4	180.3	191.2	190.7	187.3	176.3
140°	137.6	138.1	135.6	133.1	136.6	149.0	156.5	168.4	166.9	164.4	151.5
142.5°	104.3	105.8	112.3	117.2	125.7	151.5	147.5	158.0	165.4	171.4	141.6
145°	109.8	107.8	106.8	112.3	123.2	160.4	149.0	162.4	165.9	169.9	135.6
147.5°	126.7	127.7	126.2	122.7	137.6	149.5	143.1	155.0	157.0	156.0	142.1
150°	99.3	100.8	101.3	99.8	118.2	117.7	111.3	120.2	121.2	121.2	111.8
152.5°	81.0	81.5	80.5	79.5	91.4	89.4	86.4	89.4	88.9	88.4	86.4
155°	77.0	77.0	76.0	76.5	84.4	82.5	80.5	82.5	81.5	80.0	78.0
157.5°	71.0	71.5	71.5	73.0	78.0	74.5	72.5	73.5	72.5	71.5	71.5
160°	67.1	67.1	67.6	69.5	72.5	69.0	67.6	68.1	67.6	66.6	67.1
162.5°	65.6	65.6	66.1	67.1	67.6	65.6	64.1	64.1	64.1	64.1	65.6
165°	64.6	64.6	64.6	65.1	65.1	63.6	63.1	63.6	64.1	64.6	66.6
167.5°	66.6	66.6	66.6	66.6	66.1	65.1	64.6	65.1	65.6	66.1	67.6
170°	69.5	69.0	69.0	68.5	68.1	67.1	66.6	66.1	66.1	66.6	67.1
172.5°	71.5	71.5	71.0	71.0	70.5	69.5	68.5	68.1	68.1	68.1	68.1
175°	74.0	74.0	74.0	74.0	73.5	72.5	72.0	71.0	71.0	71.0	71.0
177.5°	77.0	77.0	77.0	77.0	76.0	75.0	74.0	73.0	73.0	73.0	72.5
180°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	35.8	35.3	33.8	33.3	32.8	31.8	30.8	30.3	29.8	29.8	30.3
5°	47.7	47.2	47.2	45.7	44.2	41.7	40.7	40.7	41.2	41.7	42.7
7.5°	60.1	61.1	62.1	59.6	55.1	49.2	45.7	46.7	49.2	51.2	51.2
10°	69.5	69.5	73.0	70.0	62.6	55.1	50.2	49.2	49.7	50.2	50.7
12.5°	83.0	83.0	81.0	73.0	65.6	58.1	54.1	53.2	53.2	51.2	50.7
15°	92.9	89.9	83.0	75.5	69.0	61.6	57.1	55.6	54.1	52.7	52.2
17.5°	98.8	93.4	83.9	77.0	70.5	64.6	60.1	57.1	55.6	56.1	56.1
20°	105.8	99.8	91.4	83.9	76.0	68.1	62.6	58.1	56.6	57.1	56.6
22.5°	111.3	105.3	96.9	88.4	80.0	71.5	65.1	59.6	57.6	58.1	58.1
25°	117.7	112.8	103.8	93.9	83.5	75.5	69.0	62.6	59.6	59.1	59.1
27.5°	124.2	120.7	111.3	99.3	88.4	79.0	72.5	65.1	61.6	60.1	60.1
30°	132.6	128.7	119.2	104.8	92.9	83.9	77.0	69.0	64.1	61.6	61.1
32.5°	146.0	141.6	130.1	114.7	97.9	88.9	81.5	72.5	66.1	63.1	62.6
35°	189.8	182.8	164.9	147.0	119.7	99.3	86.9	75.5	68.1	64.1	63.6
37.5°	217.1	200.2	176.3	164.4	134.6	121.7	104.8	86.4	71.0	66.1	65.1
40°	261.3	237.9	208.1	184.8	131.1	133.1	122.7	107.8	84.4	69.5	68.1
42.5°	298.5	269.2	224.0	193.7	131.6	139.1	131.1	118.7	101.3	82.5	79.5
45°	368.1	330.3	260.3	208.1	135.1	148.0	138.1	125.2	109.8	96.9	95.4
47.5°	497.2	446.1	325.4	232.0	158.0	171.9	154.0	137.1	123.2	108.3	105.8
50°	680.5	619.4	400.4	250.8	197.2	226.5	194.2	165.9	150.0	139.1	137.6
52.5°	891.6	827.6	455.5	285.6	244.9	294.1	256.8	224.0	203.2	203.2	206.1
55°	1137.0	1072.9	499.7	333.8	303.5	368.6	328.3	301.5	291.6	333.8	345.2
57.5°	1380.4	1299.0	529.5	383.0	372.1	456.0	407.8	385.0	403.3	528.5	567.3
60°	1602.5	1467.8	552.9	429.7	430.7	525.5	489.8	488.3	516.6	676.5	725.7
62.5°	1730.6	1547.3	551.4	456.5	464.9	568.8	539.0	546.9	562.8	701.4	738.6
65°	1818.5	1585.1	539.9	468.4	479.3	584.2	546.9	533.5	523.1	620.9	656.7
67.5°	1757.9	1496.7	514.1	451.0	470.4	561.8	512.6	474.4	454.0	503.7	528.0
70°	1472.3	1248.3	455.0	405.8	423.7	473.4	426.2	388.4	367.1	393.9	405.3
72.5°	1115.2	949.8	410.3	379.5	371.6	391.4	346.7	304.5	291.6	309.0	311.5
75°	888.2	743.1	377.5	343.2	311.9	331.3	276.7	225.5	218.1	218.1	214.1
77.5°	666.1	550.9	321.9	267.2	230.0	261.8	206.1	157.0	147.0	145.0	139.6
80°	446.6	375.0	216.6	177.3	165.4	194.2	146.5	115.2	115.7	115.2	108.8
82.5°	311.9	289.6	175.8	154.5	141.6	153.0	132.6	110.8	109.8	110.8	103.8
85°	276.7	265.3	170.4	159.5	146.0	147.5	127.2	104.8	105.3	107.3	101.3
87.5°	265.8	252.8	170.9	154.0	142.6	136.6	115.2	96.9	99.8	101.8	96.9
90°	239.4	226.5	157.0	139.1	127.2	118.7	101.8	91.9	95.9	97.9	93.4
92.5°	207.6	194.2	130.6	122.7	119.7	119.7	106.8	97.9	100.3	101.3	97.4
95°	178.8	165.9	116.2	107.8	105.3	105.8	95.4	87.9	89.4	88.9	85.9
97.5°	144.5	136.6	101.3	95.9	93.4	92.4	85.4	80.0	83.0	84.9	82.5
100°	127.7	123.7	97.9	93.9	90.4	89.9	83.9	80.5	83.0	85.9	83.9
102.5°	119.2	116.2	93.4	87.9	85.4	84.4	80.5	76.5	79.0	82.0	80.5
105°	112.3	107.8	89.4	84.4	81.0	80.5	76.5	71.5	73.0	77.0	76.0
107.5°	106.3	103.3	88.9	83.5	79.0	79.0	74.5	70.5	71.0	72.5	72.5
110°	111.3	107.8	92.4	88.4	82.5	80.5	79.5	76.5	74.0	73.0	73.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	137.6	131.1	115.7	111.3	101.3	94.4	87.9	82.0	78.0	76.5	75.5
115°	162.4	155.0	136.6	125.2	111.8	101.3	92.4	85.9	80.0	78.0	80.0
117.5°	167.4	147.5	119.2	109.8	101.8	95.4	90.4	85.4	81.0	82.5	81.0
120°	165.9	141.6	120.2	133.6	120.2	105.3	93.4	93.4	91.9	84.4	85.9
122.5°	255.3	238.4	212.6	204.7	166.9	152.5	130.1	111.3	92.9	82.5	77.5
125°	349.7	333.3	293.6	263.3	225.5	185.8	142.6	109.8	85.9	76.0	77.5
127.5°	351.7	336.8	299.0	247.9	198.2	159.0	118.7	97.4	83.9	77.5	76.5
130°	274.2	259.8	227.5	188.3	157.0	131.1	106.8	87.9	76.0	71.0	69.5
132.5°	237.4	224.5	194.7	159.0	136.1	115.7	95.4	76.5	68.5	65.1	65.6
135°	199.7	184.3	156.0	136.6	122.2	103.8	85.4	70.0	66.1	65.1	64.6
137.5°	169.4	158.5	138.6	123.7	109.8	93.4	75.0	65.6	64.1	65.1	64.1
140°	144.1	135.1	124.2	111.3	94.4	79.0	67.1	62.6	65.1	65.6	65.1
142.5°	124.2	115.2	103.8	86.4	78.5	71.5	68.5	65.1	65.1	64.6	64.1
145°	103.8	91.9	86.4	88.9	83.9	77.0	71.5	64.6	62.1	62.1	62.6
147.5°	119.2	106.8	99.8	94.4	84.9	75.0	66.6	60.1	59.1	61.1	60.6
150°	102.8	91.4	86.4	79.0	73.0	65.6	60.1	57.6	58.1	60.6	60.6
152.5°	82.0	74.0	71.0	69.0	66.1	61.6	58.6	57.6	58.6	59.6	59.6
155°	77.0	72.5	69.0	67.6	64.1	60.6	58.1	57.6	58.6	59.6	60.6
157.5°	72.0	70.5	66.1	64.6	61.6	60.1	58.6	58.6	59.1	60.1	61.1
160°	68.5	68.1	64.1	63.6	61.6	60.6	60.6	61.1	61.6	61.6	61.6
162.5°	66.6	66.6	65.1	64.1	63.6	63.1	64.6	65.1	64.6	64.6	64.6
165°	67.1	67.6	66.1	65.1	64.6	65.6	68.1	68.1	67.1	66.6	66.1
167.5°	67.6	68.1	67.1	66.6	66.6	67.6	68.5	68.1	67.6	67.1	66.6
170°	67.1	67.6	67.6	68.1	68.1	68.1	69.0	69.0	68.1	67.6	67.6
172.5°	68.1	68.5	69.0	69.5	70.0	69.5	70.0	70.0	70.0	70.0	70.5
175°	71.0	71.0	71.5	71.5	71.0	71.5	71.5	71.5	72.0	73.0	73.0
177.5°	72.5	72.5	72.0	72.0	71.5	72.0	72.0	72.0	72.0	72.5	72.0
180°	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5

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: SP1-2406-133-5

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.

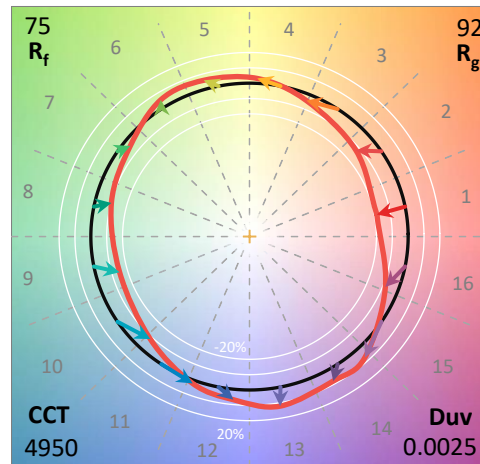
**Test Information**

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**

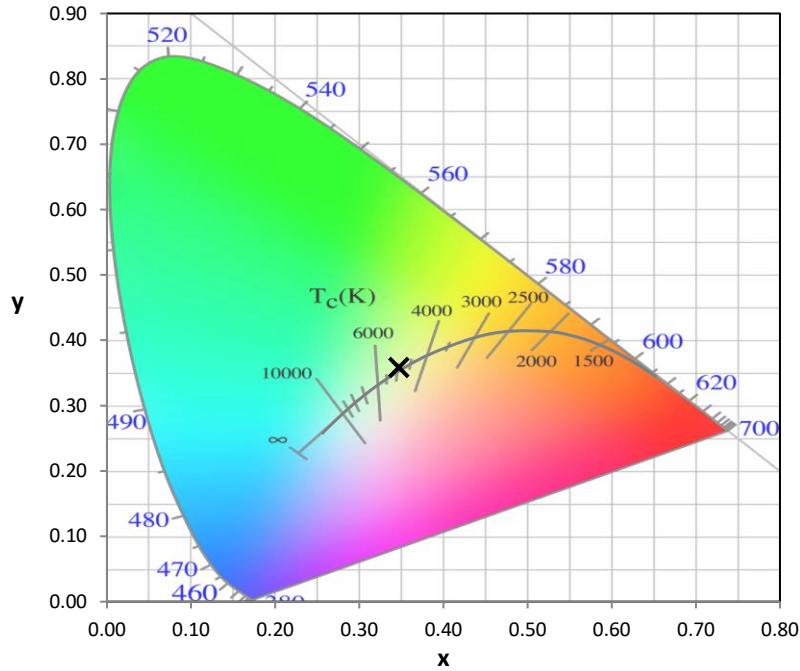
Stabilization Time: 0.803355M  
 Operation Time: 1H  
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

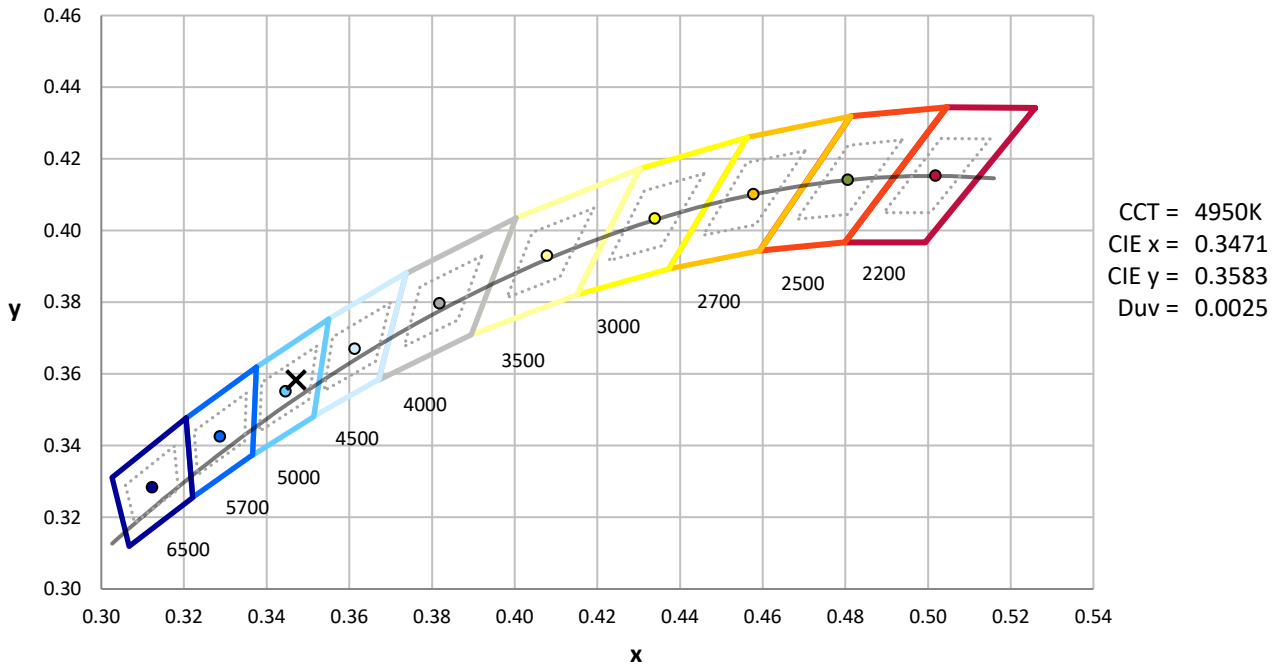
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2406-133-5

CIE 1931 Chromaticity Diagram



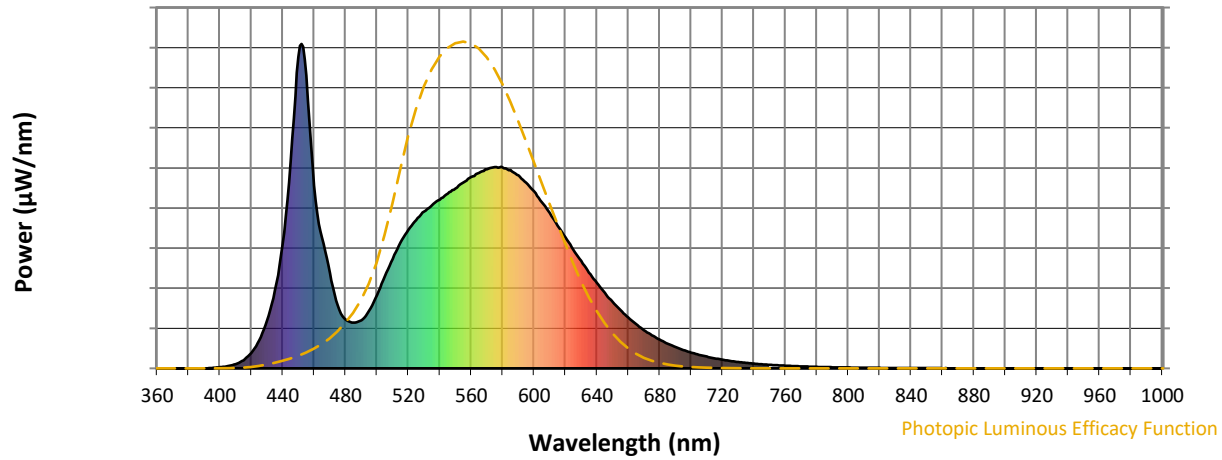
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

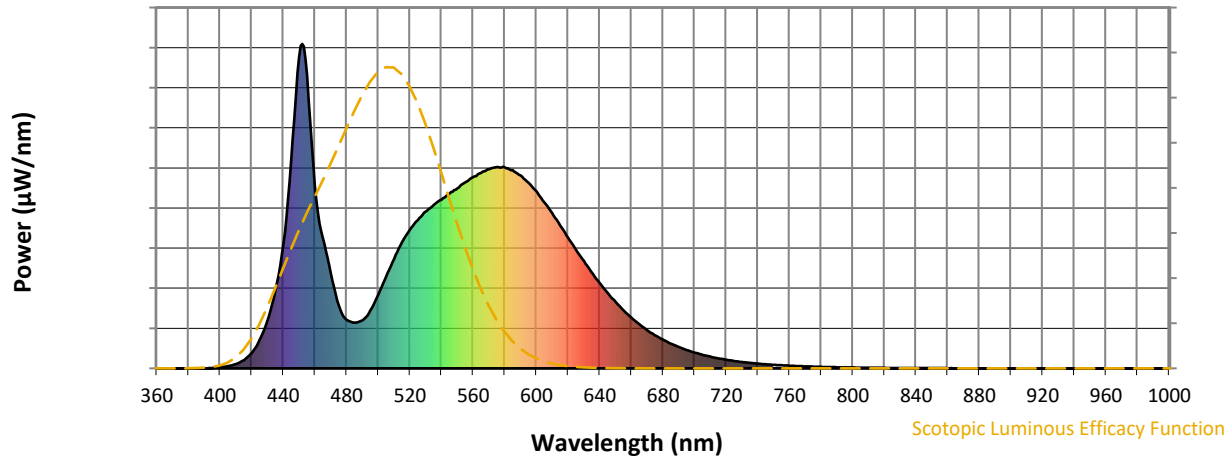


**Photopic Lumens: NR**

$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens ( $\phi/\text{nm}$ )
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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**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: NR**

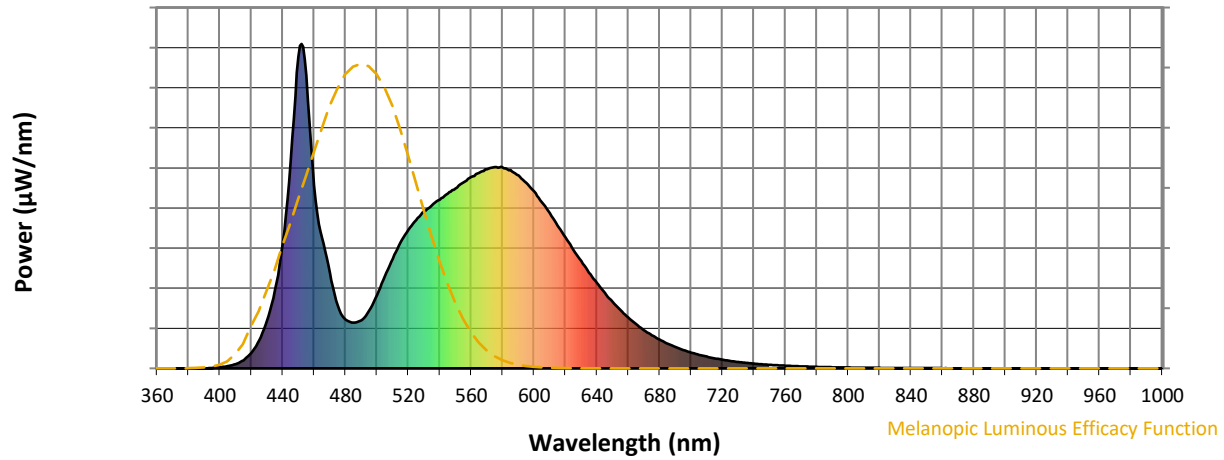
**S/P: 1.8**

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

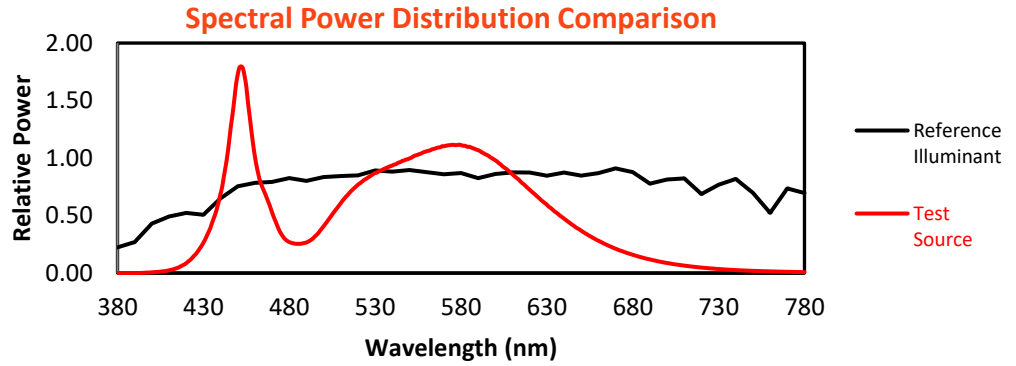
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	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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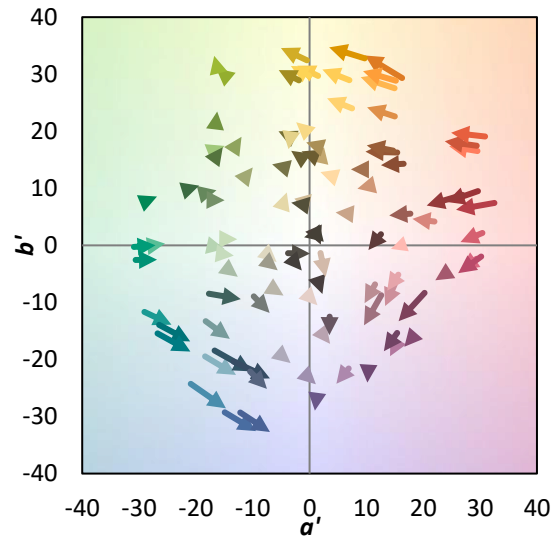
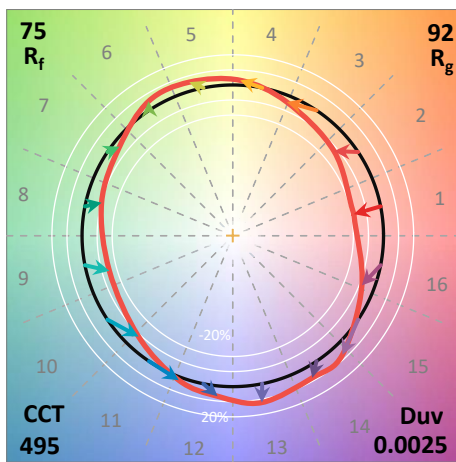
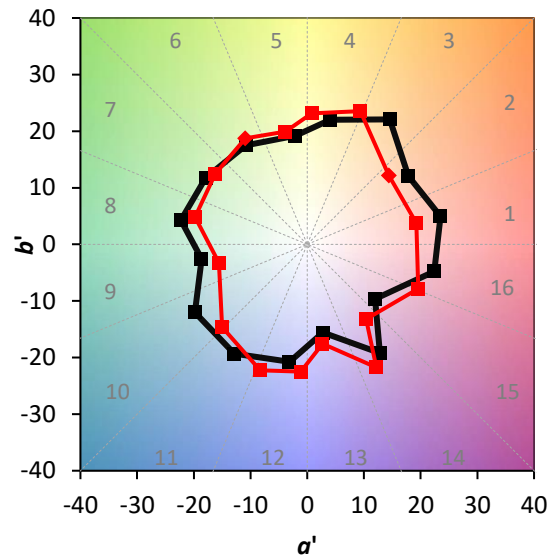
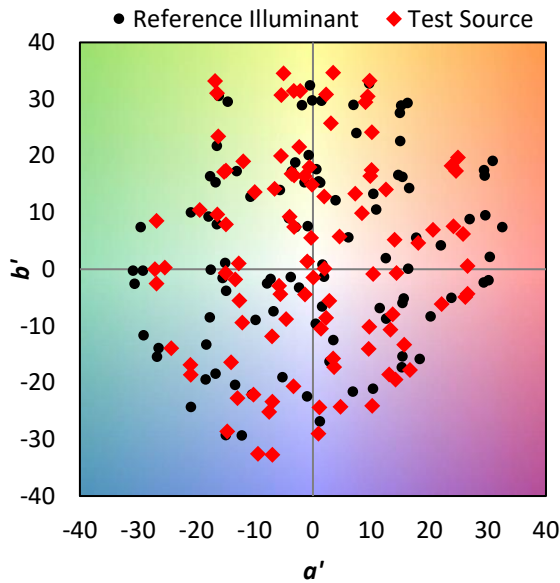
TM-30-18

**Summary**

$R_f = 74.8$   
 $R_g = 92.4$   
 CIE  $R_a = 73.0$   
 $R_9 = -35.4$



**Color Vector Graphics**

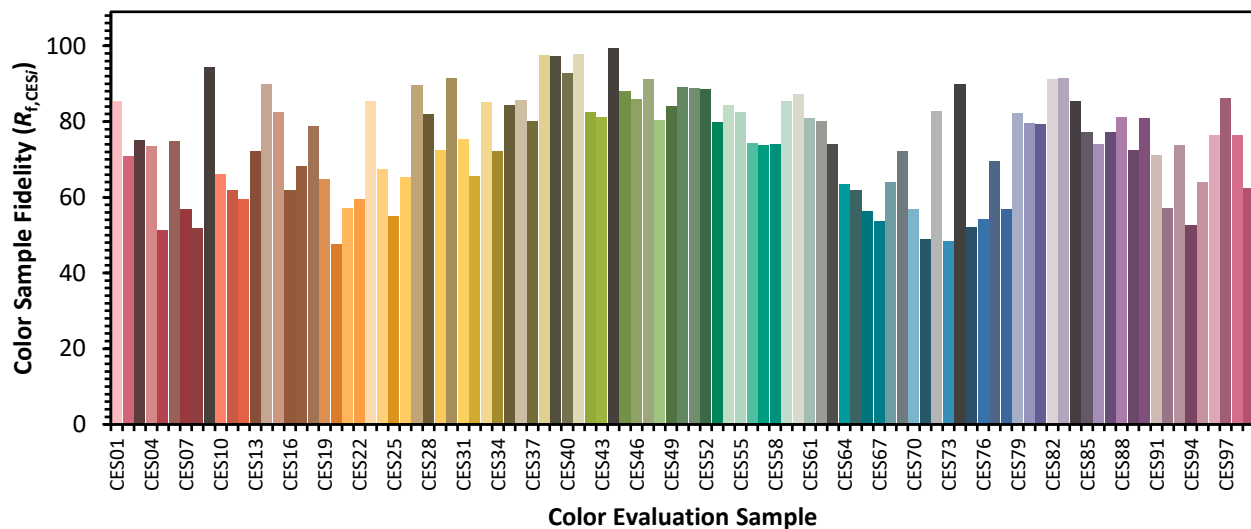


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

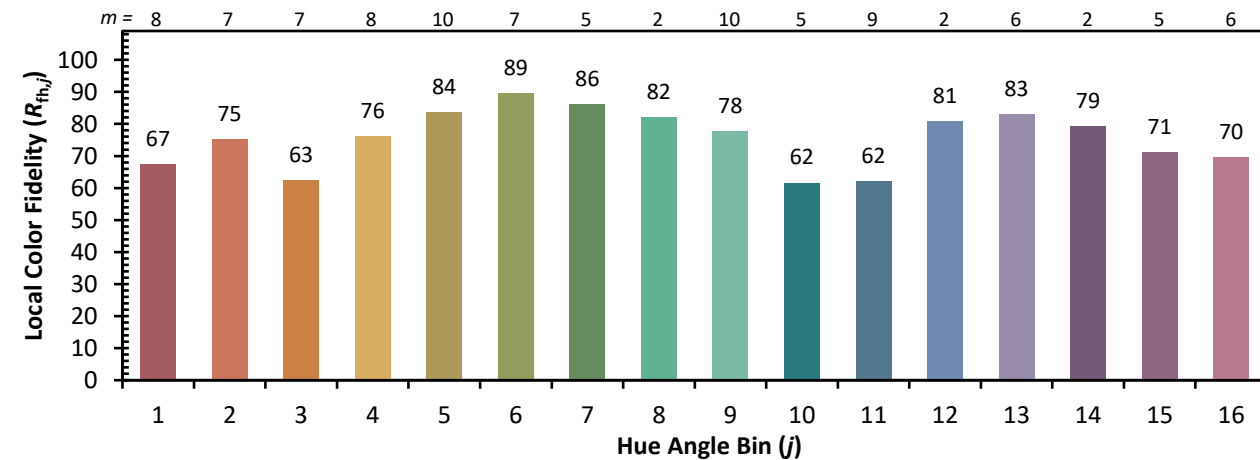
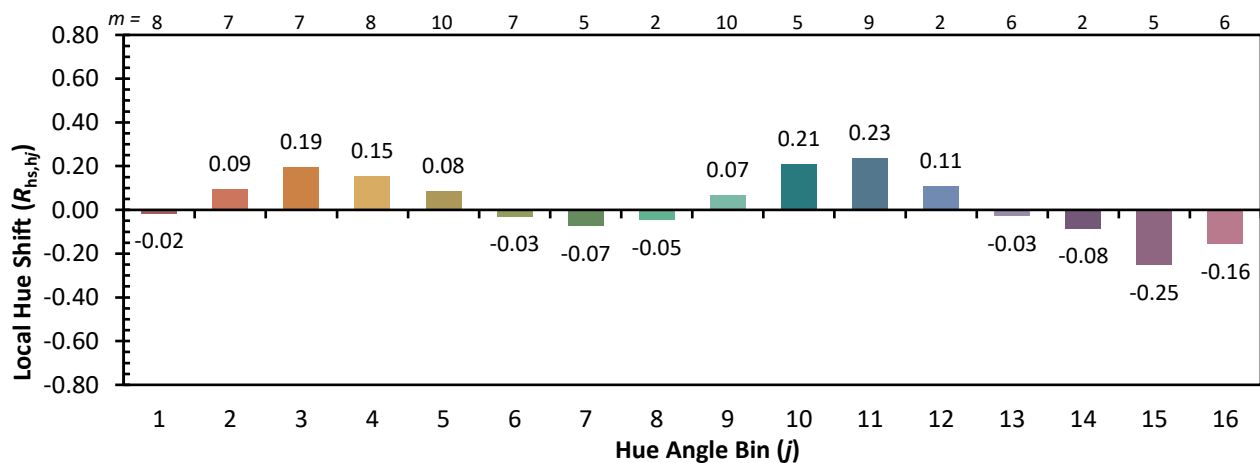
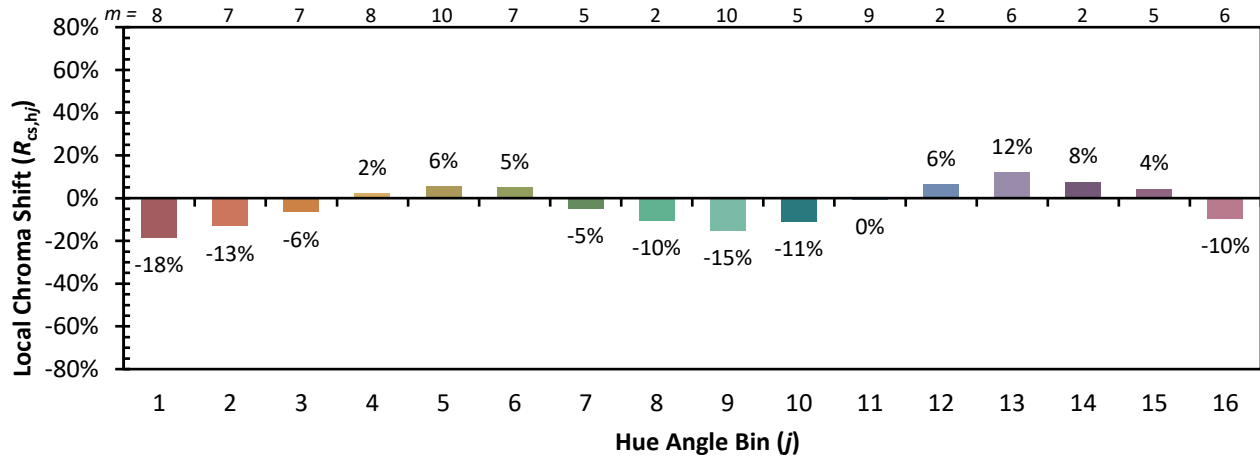
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82 = 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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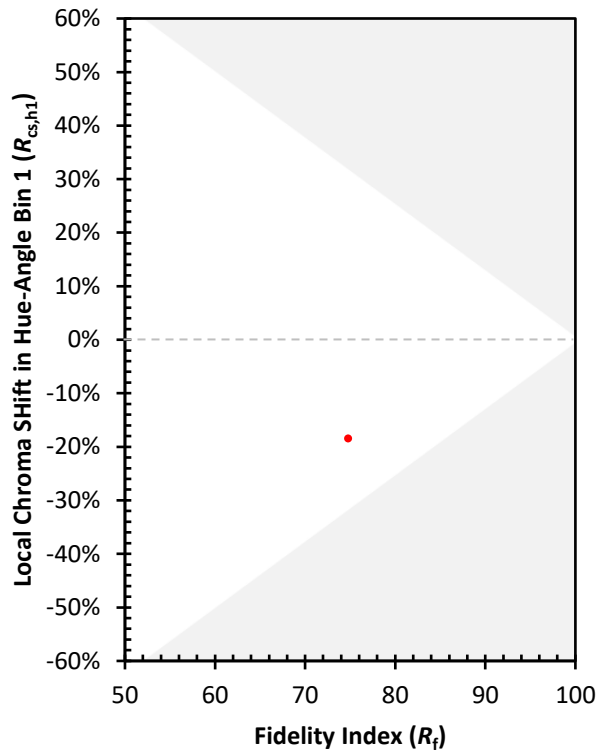
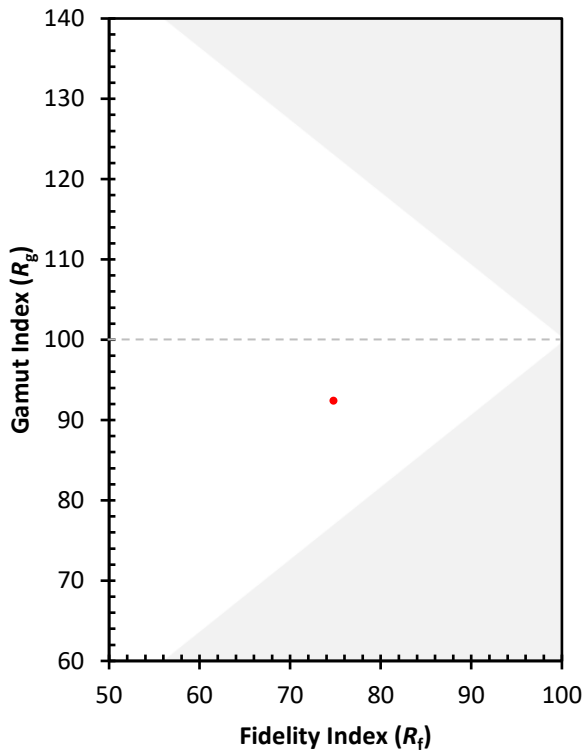
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)