

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: P856235

Luminaire Tested: **FFX-CLB-20-750-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856235
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-750-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

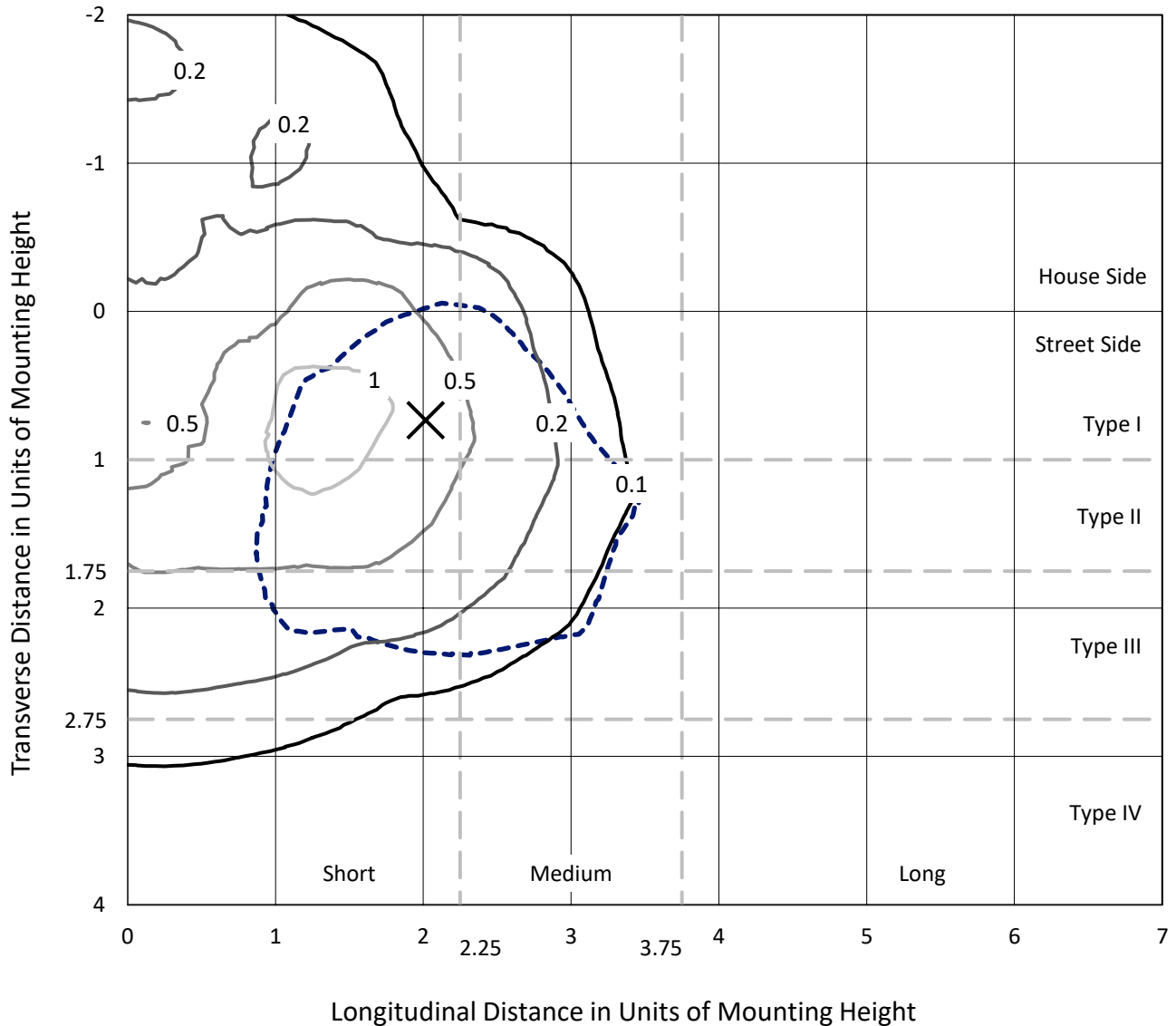
Lumens per Lamp: N/A
Luminaire Lumens: 3105.8 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 9.8%%
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

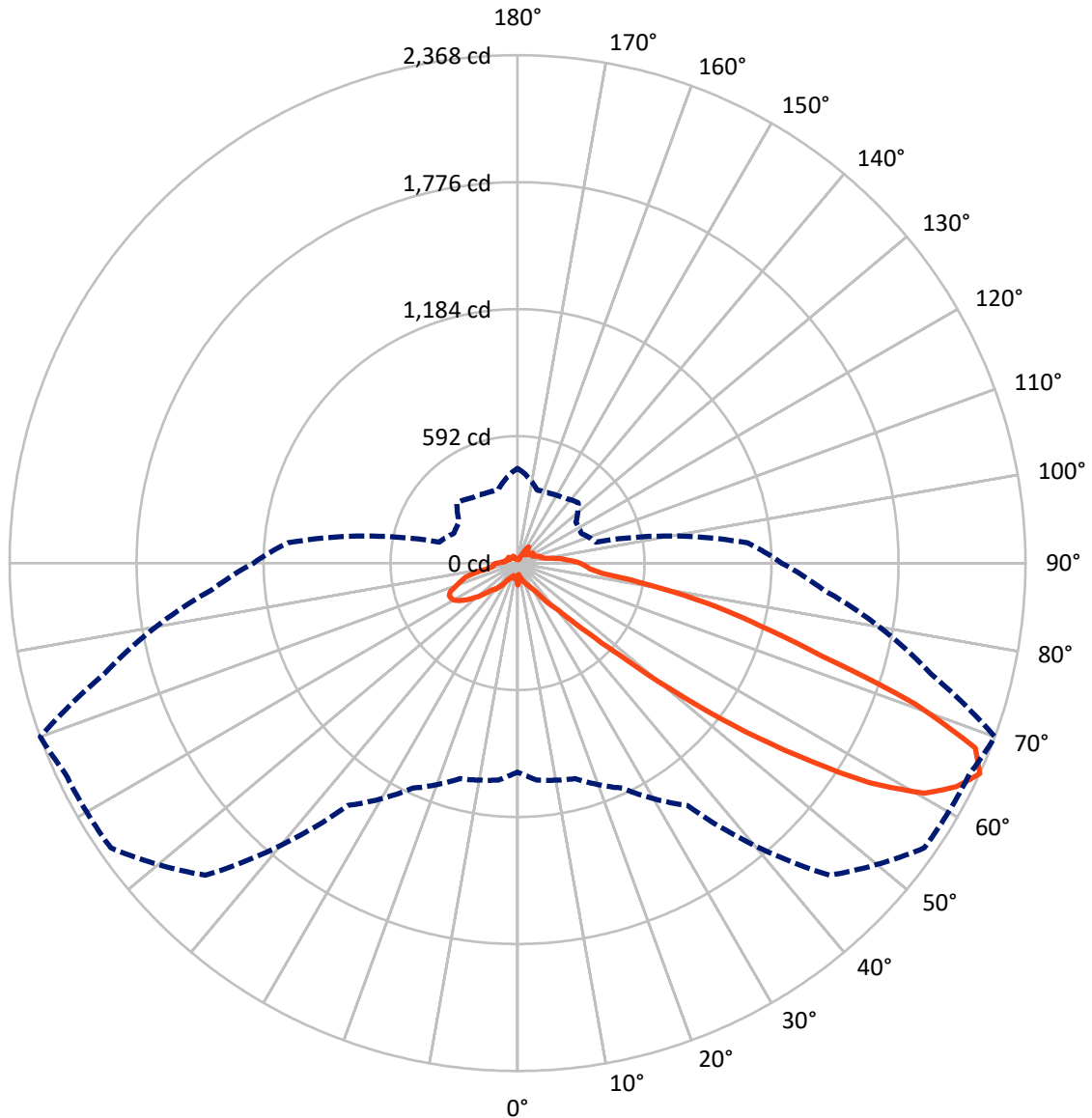
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.3 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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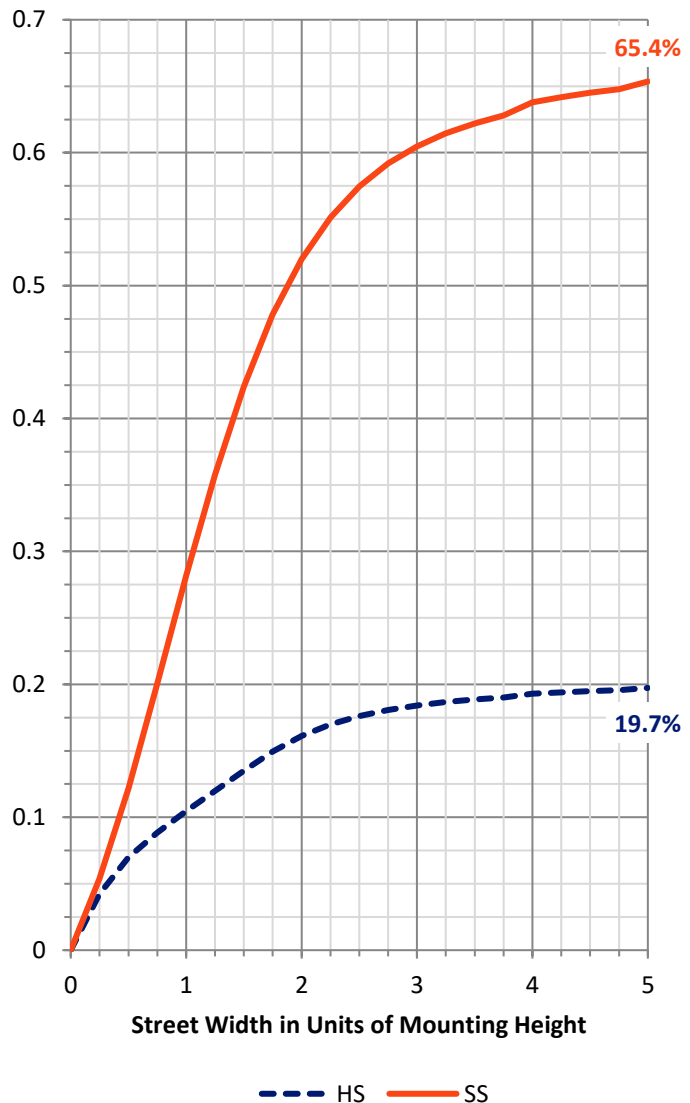
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.0	119.3	756.3
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	2100.5	249.0	2349.5
	% Fixture	67.6	8.0	75.6
Total	Lumens	2737.5	368.3	3105.8
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.2
10°-20°	20.8	0.7
20°-30°	41.9	1.3
30°-40°	88.7	2.9
40°-50°	206.8	6.7
50°-60°	616.4	19.8
60°-70°	987.7	31.8
70°-80°	567.4	18.3
80°-90°	201.2	6.5
90°-100°	118.7	3.8
100°-110°	71.7	2.3
110°-120°	53.9	1.7
120°-130°	45.6	1.5
130°-140°	30.3	1.0
140°-150°	28.5	0.9
150°-160°	12.6	0.4
160°-170°	5.2	0.2
170°-180°	1.7	0.1
0°-90°	2737.5	88.1
0°-180°	3105.8	100.0



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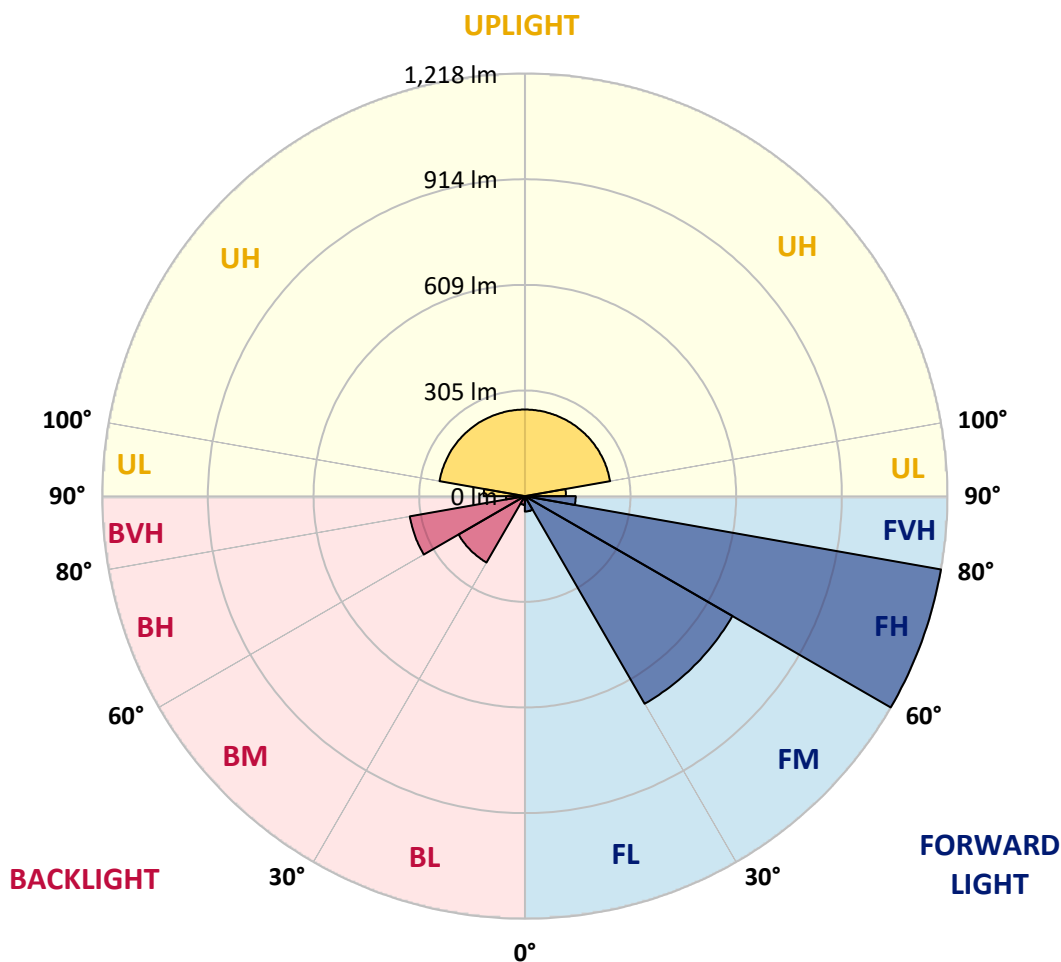
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	44.5	1.4			
FM (30°-60°)	691.1	22.3			
FH (60°-80°)	1218.4	39.2			G1/1800
FVH (80°-90°)	146.6	4.7			G2/225
BL (0°-30°)	24.8	0.8	B0/110		
BM (30°-60°)	220.8	7.1	B1/1000		
BH (60°-80°)	336.7	10.8	B1/500		G1/500
BVH (80°-90°)	54.6	1.8			G1/100
UL (90°-100°)	118.7	3.8		U3/500	
UH (100°-180°)	249.6	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°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	85.9	85.2	86.9	88.2	89.9	87.6	83.6	87.6	88.9	92.8	95.8
5°	73.1	73.4	75.0	78.7	82.0	81.3	71.1	57.9	54.0	52.3	52.7
7.5°	72.4	72.1	71.1	70.8	72.7	80.0	79.0	69.5	62.2	56.0	49.7
10°	76.4	77.3	78.3	78.3	77.0	72.4	72.1	71.4	68.8	65.8	61.9
12.5°	94.5	95.8	96.8	93.5	89.2	84.6	81.0	75.0	72.4	70.8	67.8
15°	114.2	115.5	113.9	107.6	100.1	91.5	88.2	88.5	84.9	80.6	74.4
17.5°	124.7	124.1	117.2	109.9	104.0	97.4	92.8	89.9	88.5	86.9	80.6
20°	118.2	116.5	112.2	109.3	108.6	105.0	102.0	99.4	97.8	94.1	86.6
22.5°	113.2	113.2	112.6	111.9	115.9	114.2	112.9	109.3	107.0	102.4	91.2
25°	119.5	119.5	119.8	118.8	124.1	124.1	124.1	120.1	117.2	110.6	97.1
27.5°	128.4	128.0	129.0	128.4	133.0	134.0	135.9	133.0	128.7	120.8	103.7
30°	137.9	137.9	138.9	139.6	144.2	146.5	148.8	147.5	142.2	132.6	114.9
32.5°	148.1	147.8	150.7	154.0	156.7	161.0	161.9	165.2	160.0	148.8	131.3
35°	162.9	163.9	171.8	178.7	186.3	188.9	193.5	206.4	201.1	186.0	165.9
37.5°	235.7	230.7	228.8	220.9	219.9	235.3	240.9	253.1	242.6	222.2	191.6
40°	249.8	243.9	241.3	233.7	236.3	268.3	262.7	306.4	280.8	248.2	228.4
42.5°	235.3	234.4	265.3	271.2	267.9	318.6	307.8	388.7	361.4	285.7	263.6
45°	284.1	281.4	294.6	305.1	313.3	404.5	397.9	483.2	471.3	347.9	326.2
47.5°	320.6	318.0	333.1	368.3	416.4	515.1	553.6	682.3	642.2	478.6	429.2
50°	429.9	428.2	469.0	506.9	586.2	732.0	837.7	976.6	917.7	668.5	577.7
52.5°	533.2	538.5	586.2	659.0	742.9	1006.2	1157.0	1254.4	1253.7	870.6	741.6
55°	607.3	625.1	681.3	812.7	929.2	1249.4	1452.9	1524.9	1585.5	1161.6	903.2
57.5°	751.1	782.1	836.0	966.1	1116.5	1543.7	1834.0	1822.2	1931.1	1463.4	1078.9
60°	898.9	935.1	953.2	1072.7	1270.2	1827.1	2096.0	2068.4	2178.0	1726.1	1263.9
62.5°	945.0	980.5	998.3	1128.3	1381.1	1987.7	2216.8	2227.7	2295.8	1913.3	1373.5
65°	974.0	1014.8	1040.4	1157.6	1378.8	2057.8	2314.6	2324.8	2367.6	1994.0	1430.1
67.5°	968.7	1014.4	1047.4	1152.3	1302.4	1999.6	2290.2	2244.1	2301.4	1936.4	1370.6
70°	864.0	903.8	936.8	1017.7	1087.2	1684.6	1981.5	1905.4	1964.7	1617.8	1131.6
72.5°	706.0	722.5	751.1	789.3	823.9	1249.8	1511.4	1446.3	1480.5	1213.6	847.9
75°	580.0	576.7	602.3	630.0	619.1	913.1	1195.8	1136.2	1168.1	921.6	676.4
77.5°	429.9	428.2	465.4	463.1	446.7	632.3	947.9	904.8	909.1	680.7	506.6
80°	258.4	263.3	299.5	306.8	287.3	396.6	676.7	656.3	625.7	465.1	355.2
82.5°	181.4	188.9	208.0	215.9	206.4	289.7	448.3	434.1	397.9	337.4	250.2
85°	185.0	186.3	188.6	189.3	185.0	260.0	347.9	340.0	337.7	282.7	206.4
87.5°	185.0	187.9	189.9	189.6	182.0	243.6	320.9	308.4	311.4	264.3	199.5
90°	165.9	171.2	170.8	171.8	165.6	220.2	291.0	280.8	284.7	238.3	181.4
92.5°	135.6	139.2	142.9	149.8	140.5	187.3	245.9	236.3	241.3	202.8	154.4
95°	126.1	129.4	131.7	135.3	126.1	166.5	217.6	206.0	208.0	172.1	130.7
97.5°	102.0	104.0	106.6	107.3	100.7	128.0	165.6	155.7	157.0	133.6	102.7
100°	85.6	87.2	89.5	89.5	85.2	106.0	131.0	125.7	125.1	109.3	86.9
102.5°	81.0	81.6	85.2	84.6	80.3	97.8	118.5	115.2	115.5	101.4	81.6
105°	79.7	79.7	83.3	81.6	78.0	93.1	110.9	109.9	109.6	96.4	78.3
107.5°	78.3	78.3	82.0	80.3	77.3	87.9	104.3	101.0	100.7	91.8	74.1
110°	73.1	74.1	78.0	76.0	73.7	82.9	95.8	93.5	93.5	86.6	70.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	64.8	65.5	69.1	67.5	65.8	73.7	84.9	82.0	82.3	77.7	66.2
115°	60.6	61.6	65.2	62.9	61.6	68.8	78.7	76.7	77.3	73.1	62.5
117.5°	60.9	61.2	63.9	64.2	61.6	67.5	72.7	73.4	74.4	71.8	63.5
120°	74.1	72.4	73.7	72.1	70.8	77.7	83.9	84.6	84.3	79.3	63.2
122.5°	74.7	71.4	75.0	72.7	71.4	79.0	85.9	87.6	85.9	81.6	64.5
125°	59.6	60.6	60.9	61.6	62.9	71.1	74.7	75.0	75.4	74.1	62.5
127.5°	52.3	52.0	50.4	50.7	53.7	60.9	63.5	65.5	64.2	63.5	56.3
130°	50.0	50.7	50.4	50.4	52.0	57.6	59.6	62.5	61.6	60.2	51.3
132.5°	46.1	46.7	49.7	53.3	52.7	54.6	55.3	58.3	58.6	58.6	51.7
135°	43.8	44.4	46.7	51.3	50.0	51.0	50.7	53.3	53.7	54.0	48.7
137.5°	44.8	45.1	43.8	44.4	45.4	49.7	51.0	53.7	53.7	52.3	45.4
140°	47.1	47.1	44.1	43.1	45.1	51.7	54.3	58.6	57.9	55.6	47.1
142.5°	43.4	44.1	45.8	47.7	52.0	70.1	70.1	78.3	81.0	81.6	56.9
145°	56.6	56.9	57.6	58.6	66.8	91.8	83.6	89.5	91.8	94.1	68.5
147.5°	65.2	65.8	65.2	62.5	70.1	78.7	74.7	77.3	80.0	80.6	68.8
150°	51.0	50.4	50.0	49.7	57.9	60.6	57.3	56.9	58.9	60.6	53.3
152.5°	37.2	36.9	36.5	36.2	43.4	41.8	39.5	39.5	40.2	40.5	37.5
155°	32.9	32.6	31.9	32.3	36.9	35.2	33.2	32.6	33.2	32.9	31.3
157.5°	27.0	26.3	26.3	27.6	30.0	28.0	26.7	25.7	26.0	25.7	26.0
160°	22.4	22.1	22.4	24.0	25.3	23.7	22.4	21.7	21.7	22.4	23.7
162.5°	20.1	19.7	20.1	20.7	21.4	19.7	18.8	18.8	19.1	20.4	23.0
165°	17.4	17.4	17.8	18.1	18.4	17.4	17.1	17.1	17.8	19.7	22.7
167.5°	16.8	16.8	16.8	16.8	16.8	16.5	16.1	17.1	17.8	18.8	20.7
170°	16.5	16.1	16.5	16.5	16.5	16.5	16.5	17.4	17.4	17.8	18.8
172.5°	16.8	16.8	16.8	17.1	17.8	18.1	17.8	18.4	18.1	18.1	18.1
175°	17.1	17.1	17.4	17.8	18.1	18.4	18.8	18.8	18.8	19.1	19.1
177.5°	17.1	17.1	17.4	17.8	18.1	17.4	16.8	16.5	16.1	16.1	16.1
180°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
2.5°	93.1	84.9	73.4	78.3	93.5	90.5	75.4	66.2	66.8	73.4	74.1
5°	54.3	56.0	63.5	79.3	82.3	68.1	55.0	53.0	63.9	79.0	82.0
7.5°	49.0	49.0	55.3	77.0	86.6	71.1	53.7	48.4	56.6	69.1	71.1
10°	59.2	57.3	57.9	65.8	69.5	56.9	48.1	45.8	50.4	52.0	51.3
12.5°	66.8	68.1	74.4	72.7	56.9	46.4	43.4	43.1	45.8	47.4	47.1
15°	71.8	69.5	64.8	59.6	54.3	48.4	44.1	41.5	38.5	37.2	37.2
17.5°	76.4	71.8	63.5	58.6	53.3	49.0	45.1	41.1	39.8	40.2	40.2
20°	82.0	76.4	68.8	63.2	56.9	51.0	46.1	41.8	40.8	41.1	40.8
22.5°	86.2	81.3	73.4	66.2	59.6	53.0	48.1	43.8	42.5	42.1	42.1
25°	91.5	87.2	79.0	70.1	62.2	56.0	51.7	46.7	44.4	43.8	43.8
27.5°	98.4	94.8	85.6	76.0	66.8	59.6	55.0	49.7	46.4	45.1	44.8
30°	108.9	104.0	93.8	82.0	72.4	64.8	59.2	52.7	48.7	46.4	46.1
32.5°	124.7	118.5	105.0	90.2	78.7	70.8	63.9	55.6	50.7	48.1	47.7
35°	158.3	151.4	134.3	113.6	96.8	80.6	69.8	58.9	52.7	49.4	49.0
37.5°	179.4	166.9	146.1	127.4	107.0	97.4	83.6	69.1	55.3	51.0	50.4
40°	210.0	193.9	167.9	142.5	106.6	106.3	97.1	84.3	65.2	54.0	53.0
42.5°	232.7	212.0	179.4	151.1	107.6	110.6	102.7	91.5	77.3	62.9	61.2
45°	279.1	252.8	201.1	158.6	108.9	115.5	107.6	95.8	83.3	73.1	72.1
47.5°	366.0	329.5	243.2	173.1	123.8	132.0	117.8	104.0	91.8	81.6	79.3
50°	487.5	443.7	294.3	186.0	149.1	167.9	144.8	123.8	109.3	101.4	99.1
52.5°	630.0	580.9	326.2	206.0	179.7	212.0	186.6	161.9	142.9	144.2	142.9
55°	789.0	731.0	354.2	236.3	218.9	261.0	233.4	212.0	201.8	230.4	232.0
57.5°	942.4	880.5	371.6	268.3	262.7	317.6	285.4	270.2	274.2	358.1	377.9
60°	1088.8	991.1	385.1	298.2	299.5	362.1	337.4	334.4	346.6	454.2	484.2
62.5°	1173.4	1047.7	384.4	317.6	322.6	389.4	367.7	369.3	378.5	470.0	495.0
65°	1231.0	1076.3	377.9	327.5	332.4	399.3	371.3	358.4	352.5	415.1	441.7
67.5°	1196.5	1021.0	362.1	318.9	325.5	383.5	348.6	316.3	306.1	340.0	355.8
70°	1011.5	853.2	322.6	290.0	294.3	323.6	293.9	258.7	248.5	266.3	273.5
72.5°	764.3	655.0	289.3	267.9	257.7	267.6	238.6	201.8	199.5	209.0	210.3
75°	610.6	514.1	263.6	241.6	214.3	224.5	189.6	150.1	147.1	147.8	144.5
77.5°	460.1	382.5	221.8	190.2	162.3	179.1	140.9	103.7	98.7	96.8	93.1
80°	315.0	265.6	150.7	127.4	115.2	131.3	100.4	76.0	75.7	75.0	71.1
82.5°	223.5	205.1	123.1	108.3	97.8	103.4	87.2	71.1	69.5	69.8	65.5
85°	195.5	185.6	118.8	109.6	99.4	99.1	83.3	66.5	65.8	66.2	62.2
87.5°	187.0	176.1	116.2	104.7	94.8	89.9	73.4	58.6	60.2	61.2	57.6
90°	167.5	156.3	105.3	93.5	83.9	75.4	62.2	53.0	55.6	56.3	53.0
92.5°	141.2	129.7	82.0	75.0	70.4	69.1	58.3	50.4	52.3	52.7	50.0
95°	119.5	108.9	71.4	66.2	62.9	62.5	52.7	45.8	46.7	46.4	44.1
97.5°	96.1	88.5	62.5	57.6	54.0	52.0	45.1	39.8	41.1	41.8	40.2
100°	82.0	77.7	58.3	54.0	49.7	47.1	41.1	36.9	38.2	39.5	38.2
102.5°	77.0	73.7	57.3	52.7	48.1	44.8	39.2	34.6	35.2	36.9	35.9
105°	73.1	70.1	55.6	50.7	46.4	42.8	38.2	32.6	32.3	33.9	33.6
107.5°	68.8	66.2	54.6	48.7	44.1	40.8	36.5	31.3	30.0	30.9	30.6
110°	66.5	63.9	52.7	46.4	41.5	38.5	34.6	30.3	28.6	29.0	29.0



REPORT NUMBER: P856235
 CATALOG NUMBER: FFX-CLB-20-750-U-FR-T3-UPLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	61.9	58.9	48.4	42.5	38.5	35.9	31.9	29.0	27.0	27.6	28.0
115°	58.9	55.0	44.4	40.2	35.9	33.6	31.3	28.6	26.3	26.3	26.7
117.5°	60.9	53.3	41.5	38.2	35.9	35.2	34.6	30.6	26.0	25.7	25.7
120°	58.3	53.7	45.1	44.1	41.8	39.8	35.5	30.3	25.3	24.7	24.7
122.5°	56.9	56.0	51.0	47.7	43.4	39.5	33.2	27.6	24.4	23.7	23.7
125°	56.3	55.3	49.4	43.1	37.5	33.6	29.6	26.0	24.0	23.0	23.0
127.5°	51.7	47.1	39.8	36.2	32.6	30.9	27.6	25.3	23.0	21.7	21.7
130°	47.7	43.4	37.2	33.2	30.3	29.0	26.7	24.4	22.1	20.7	20.4
132.5°	47.1	42.8	36.2	31.3	28.6	27.3	26.0	23.4	20.7	19.4	19.1
135°	43.8	38.8	32.3	29.6	28.0	27.0	26.0	22.7	20.1	18.8	18.8
137.5°	40.5	35.5	30.6	29.3	28.0	27.0	24.0	20.7	18.8	17.8	17.8
140°	40.8	35.2	31.3	30.3	28.3	25.3	22.7	20.4	18.8	17.4	17.1
142.5°	43.4	36.5	31.6	28.6	27.3	25.7	24.7	22.1	18.8	16.5	15.8
145°	47.7	39.5	35.5	34.2	31.9	29.0	25.3	20.4	17.1	15.1	14.8
147.5°	52.7	44.4	39.8	36.2	31.6	26.7	21.7	17.8	15.1	14.5	14.2
150°	45.8	37.9	34.2	29.3	25.3	21.4	17.8	15.8	14.5	14.2	14.2
152.5°	34.6	28.3	25.3	23.0	20.7	18.8	16.8	15.5	14.5	13.8	13.8
155°	30.0	26.7	23.7	21.4	19.1	17.1	15.5	14.8	13.8	13.8	13.5
157.5°	26.3	24.7	20.7	18.8	17.1	16.1	15.5	14.5	14.2	13.8	13.8
160°	24.0	23.0	19.1	17.4	16.5	15.8	15.8	15.1	14.2	13.8	13.8
162.5°	23.4	22.4	18.4	16.8	15.8	16.1	16.8	16.5	15.1	14.5	14.5
165°	23.0	22.4	18.8	16.5	15.8	16.1	17.8	18.1	16.5	15.5	15.1
167.5°	21.1	20.7	19.7	18.1	17.1	17.1	18.1	18.4	17.8	17.8	17.4
170°	19.1	19.1	19.4	19.7	19.1	18.1	17.4	17.4	18.4	19.4	19.7
172.5°	18.4	18.8	19.4	20.4	20.4	19.1	18.1	17.8	18.8	20.1	20.4
175°	19.4	19.7	20.1	20.1	19.4	19.1	18.8	18.4	19.1	20.4	20.7
177.5°	16.1	16.1	16.5	16.5	16.1	16.5	16.1	15.5	15.5	15.5	15.5
180°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1

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.

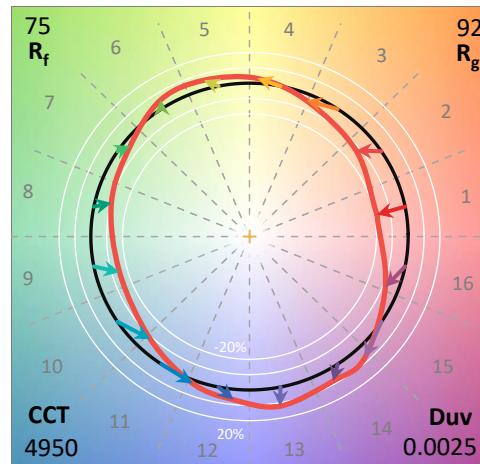
Test Information

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

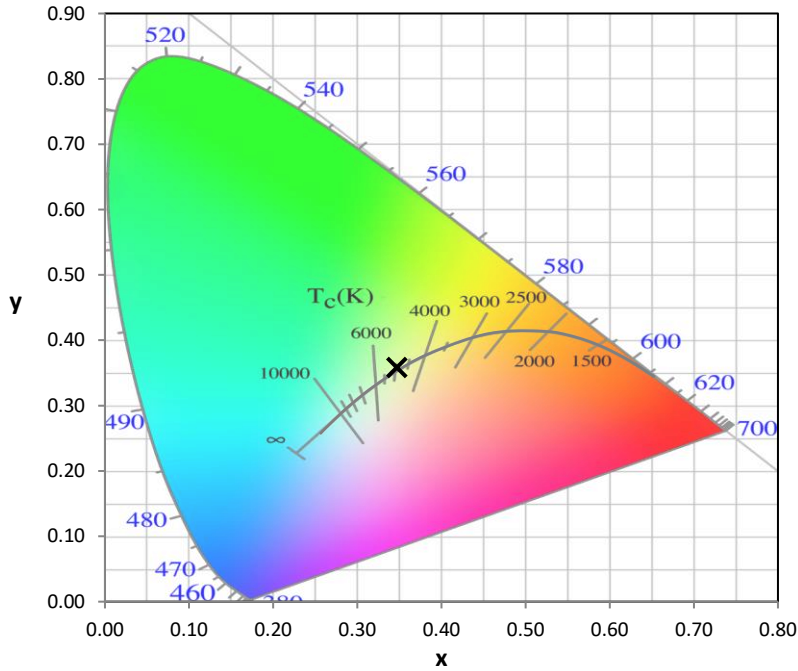
Stabilization Time: 0.803355M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-5

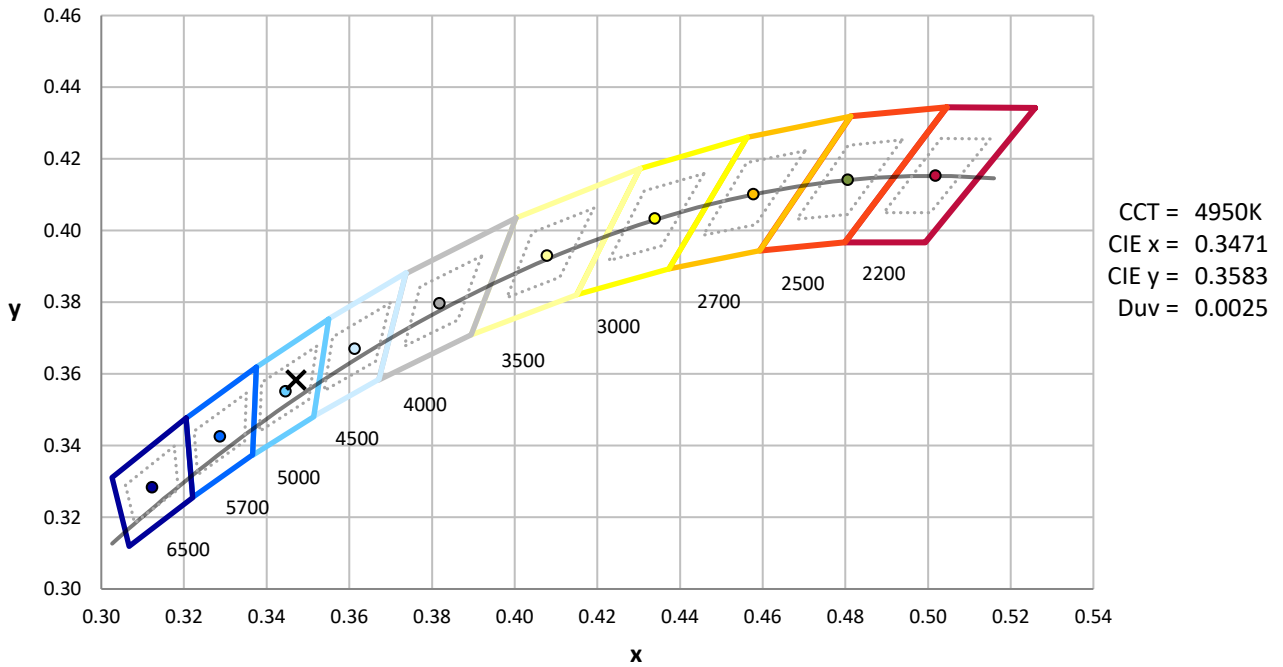
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



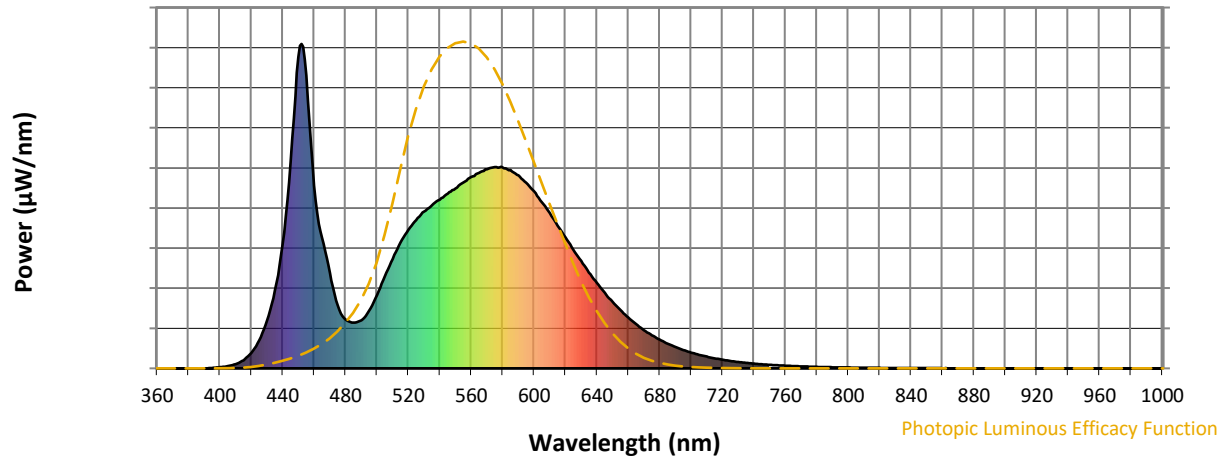
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

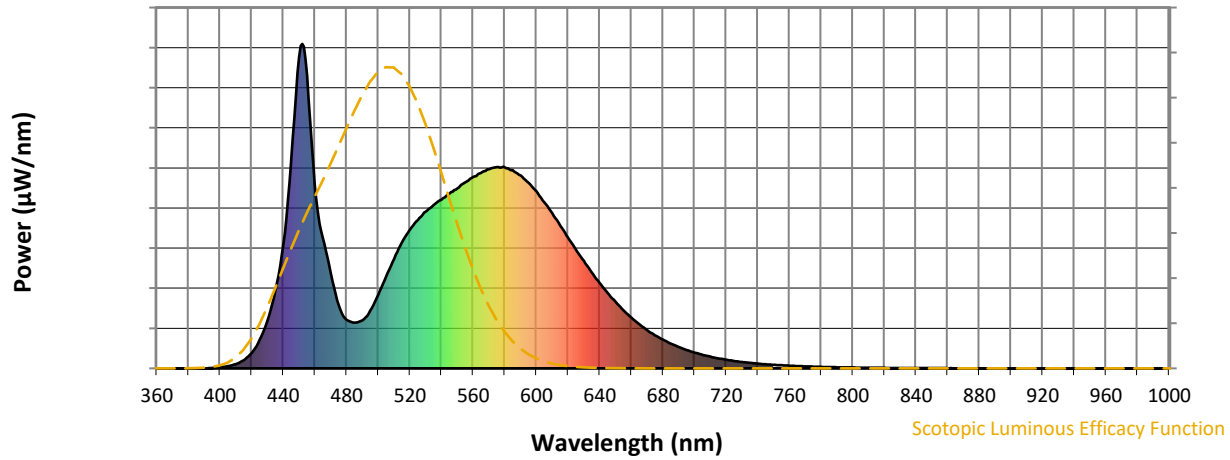


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	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



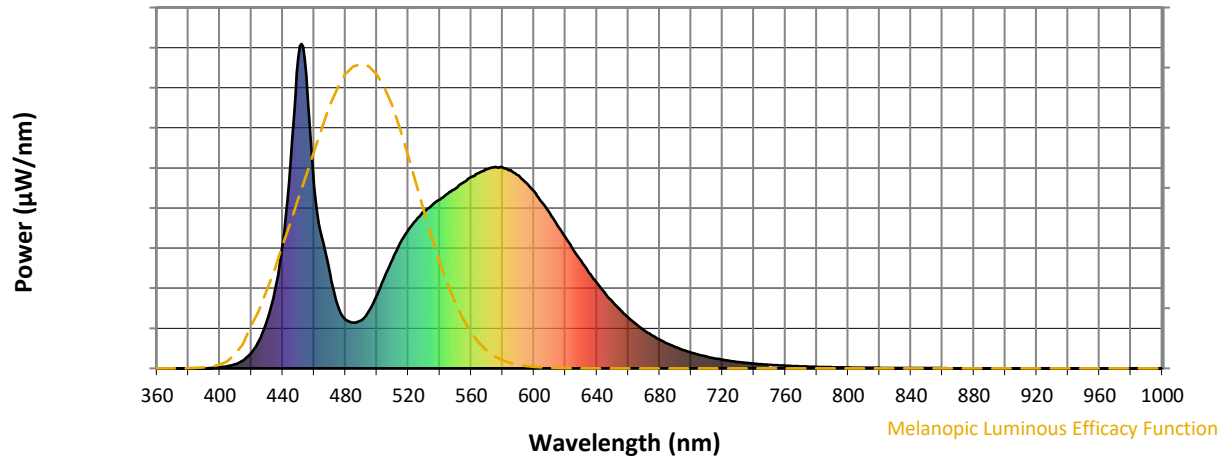
Scotopic Lumens: NR

S/P: 1.8

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /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

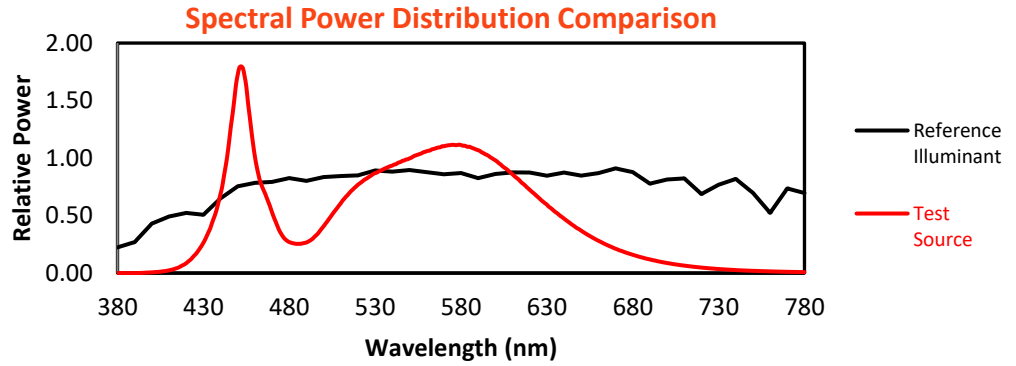
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	148	NR	620	403	NR	750	11	NR	880	0	NR
365	0	NR	495	178	NR	625	366	NR	755	9	NR	885	0	NR
370	0	NR	500	226	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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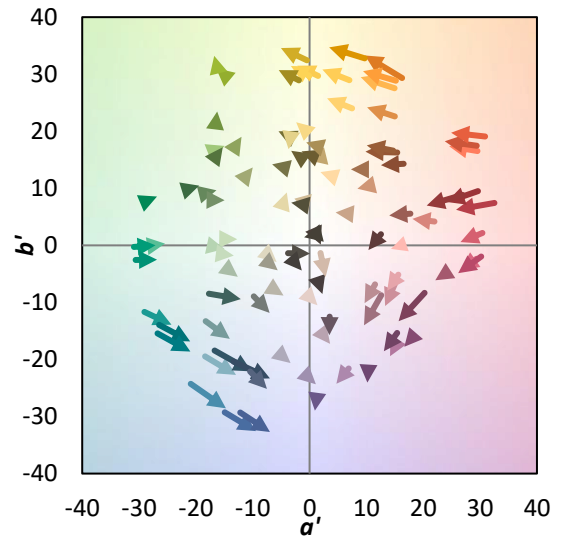
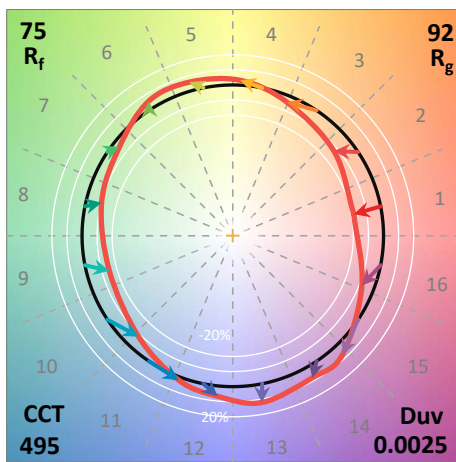
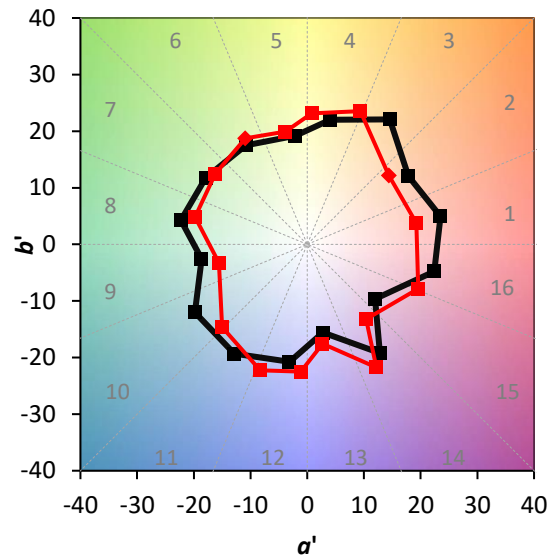
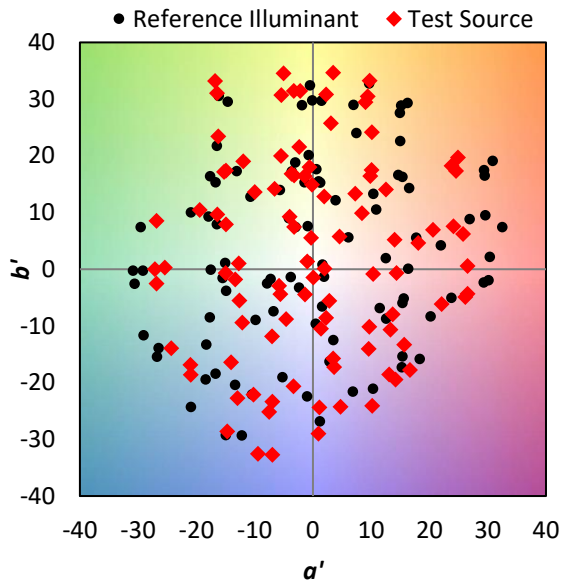
TM-30-18

Summary

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



Color Vector Graphics

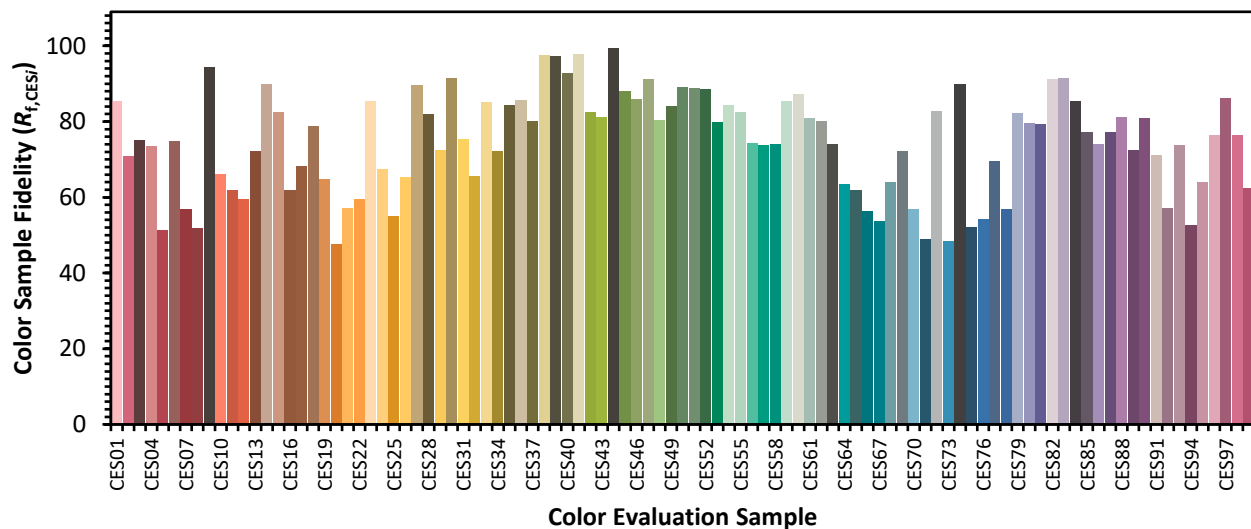


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TM-30-18

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

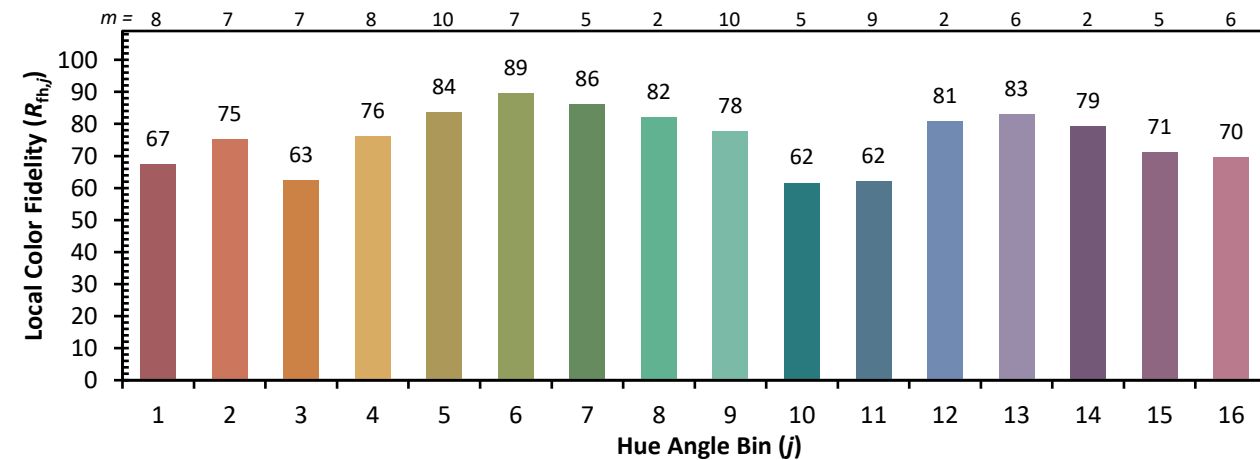
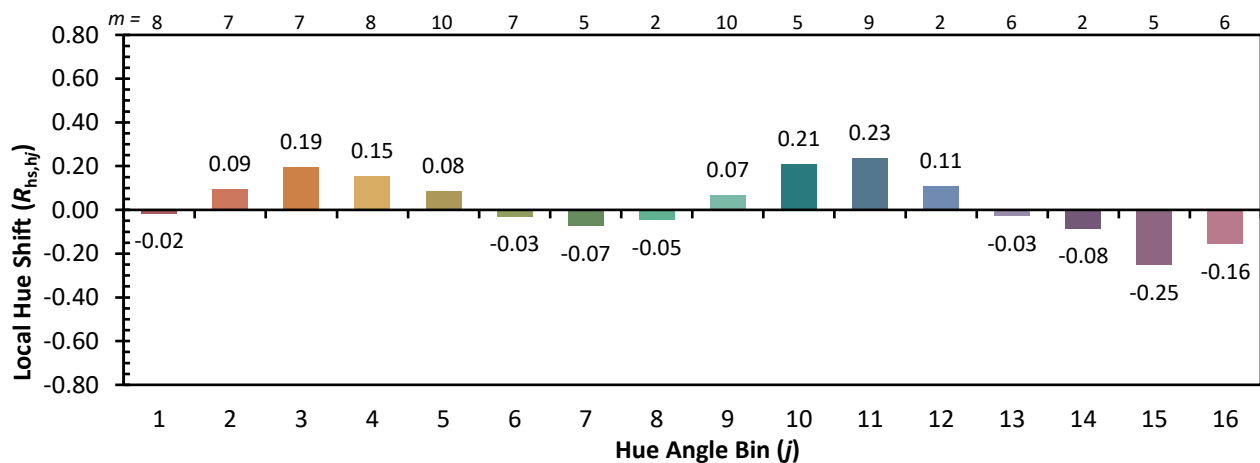
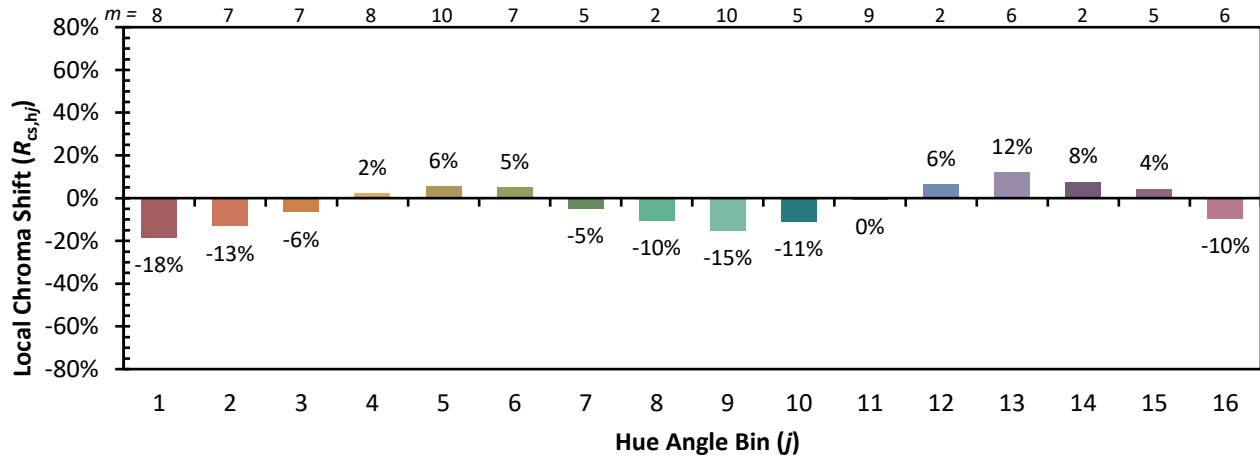
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 54
CES02 = 60	CES27 = 90	CES52 = 88	CES77 = 69
CES03 = 30	CES28 = 82	CES53 = 80	CES78 = 57
CES04 = 69	CES29 = 72	CES54 = 84	CES79 = 82
CES05 = 46	CES30 = 91	CES55 = 82	CES80 = 79
CES06 = 50	CES31 = 75	CES56 = 74	CES81 = 79
CES07 = 39	CES32 = 66	CES57 = 74	CES82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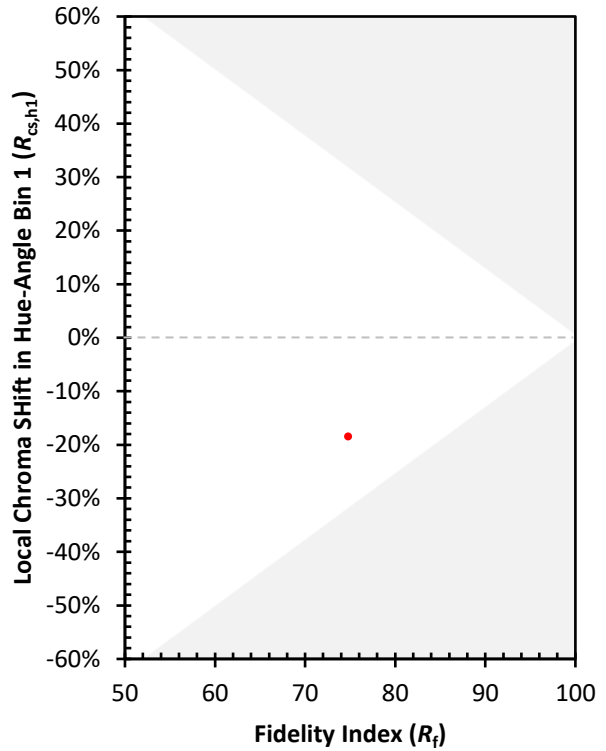
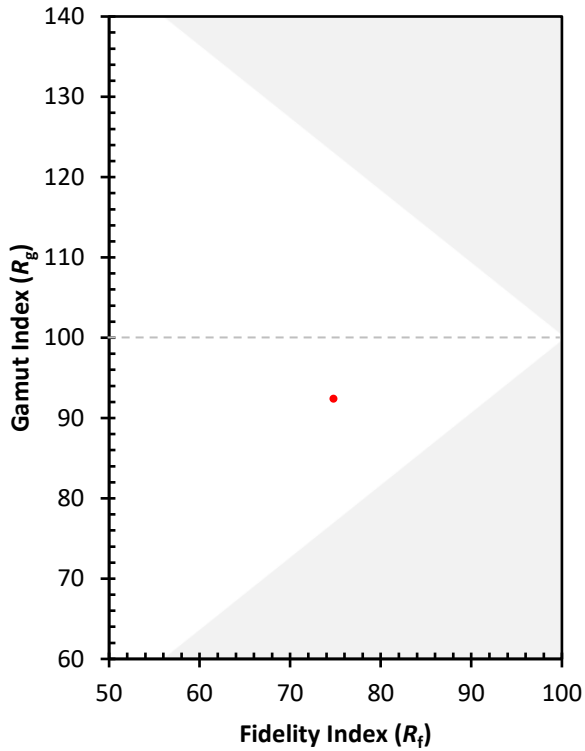
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-5

TM-30-18

Measure Comparisons



(END OF REPORT)