

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: P856208

Luminaire Tested: **FFX-CLB-20-727-U-FR-T3-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856208
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-20-727-U-FR-T3-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

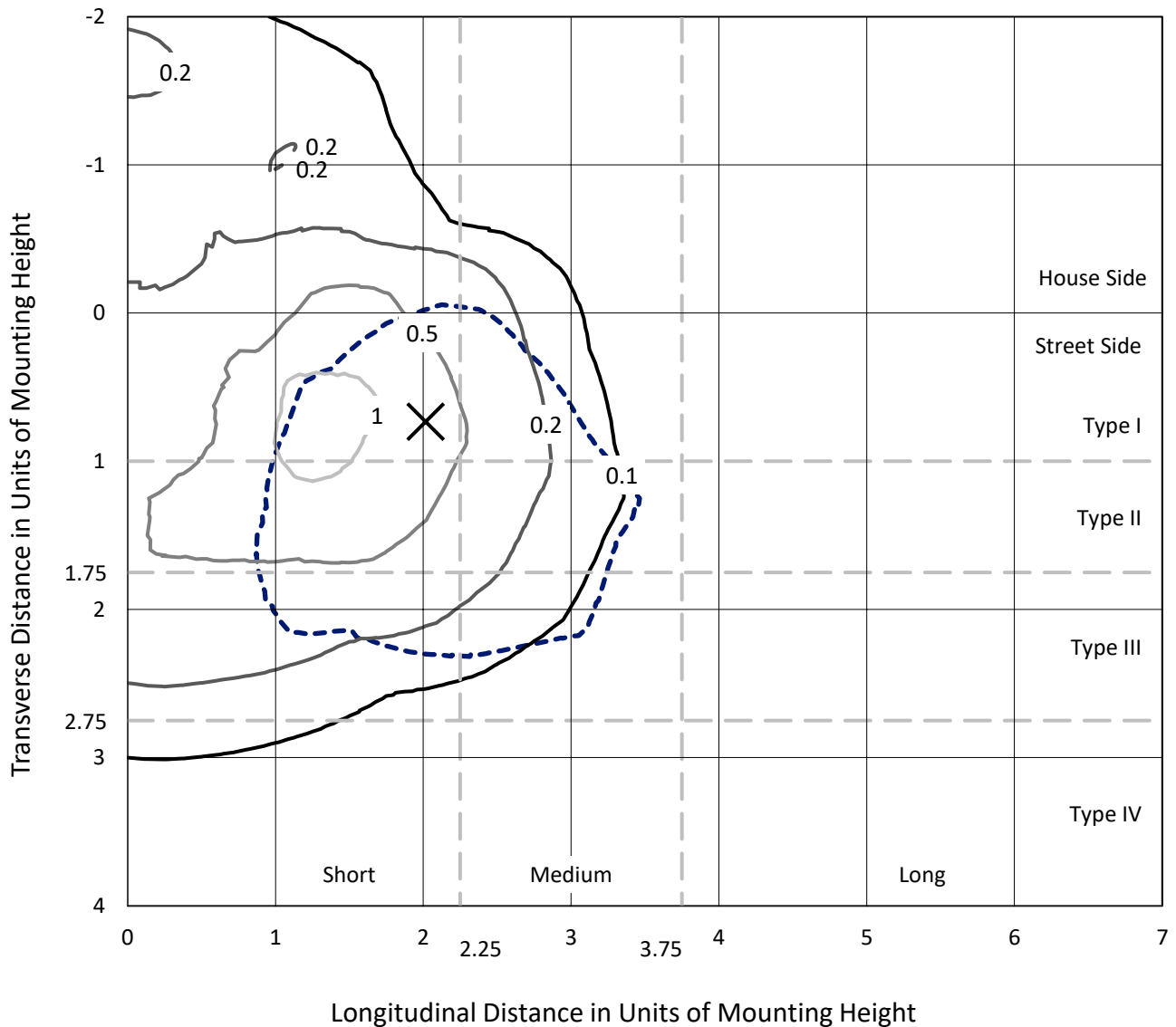
Lumens per Lamp: N/A
Luminaire Lumens: 2889.2 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

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

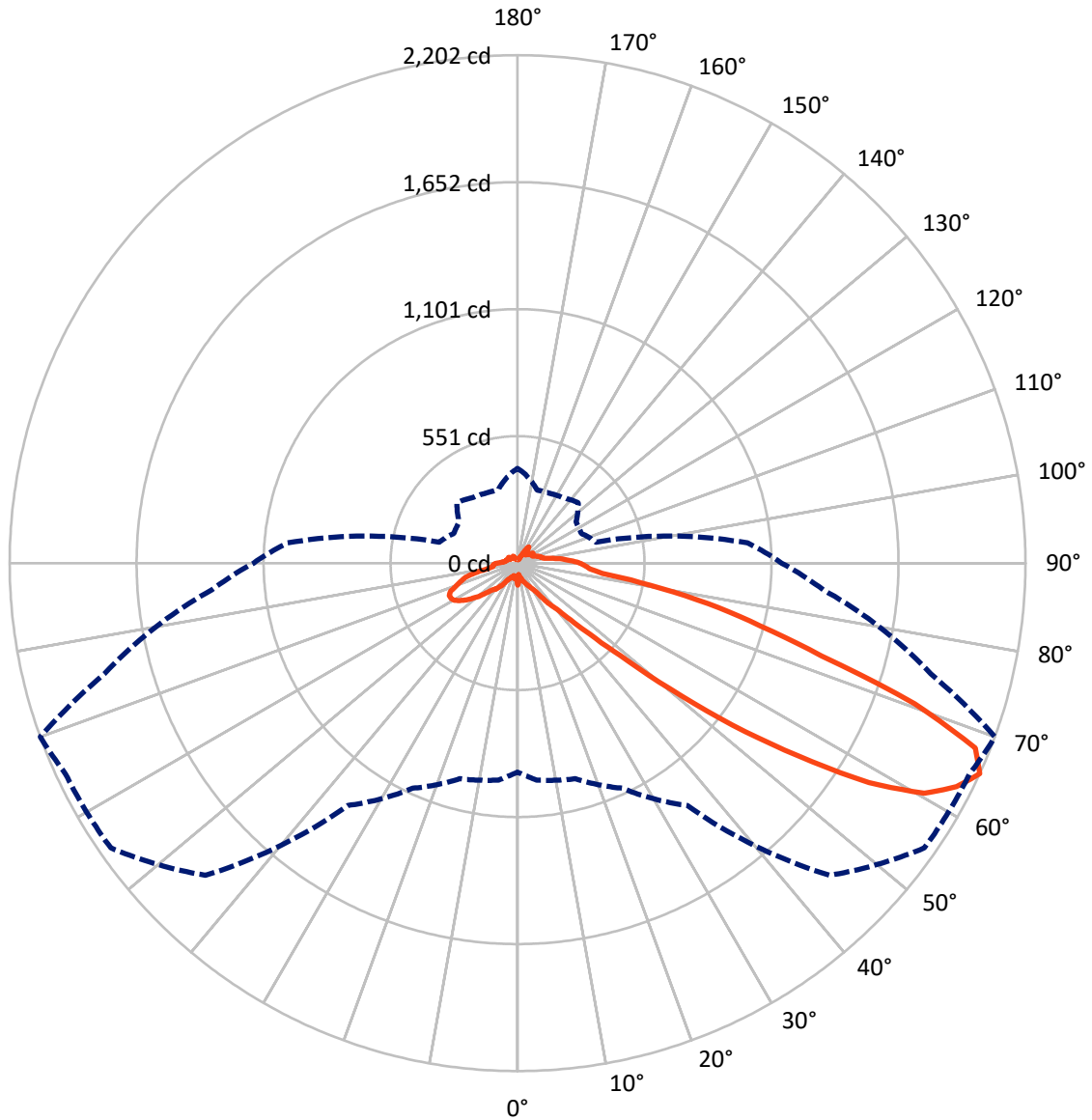
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 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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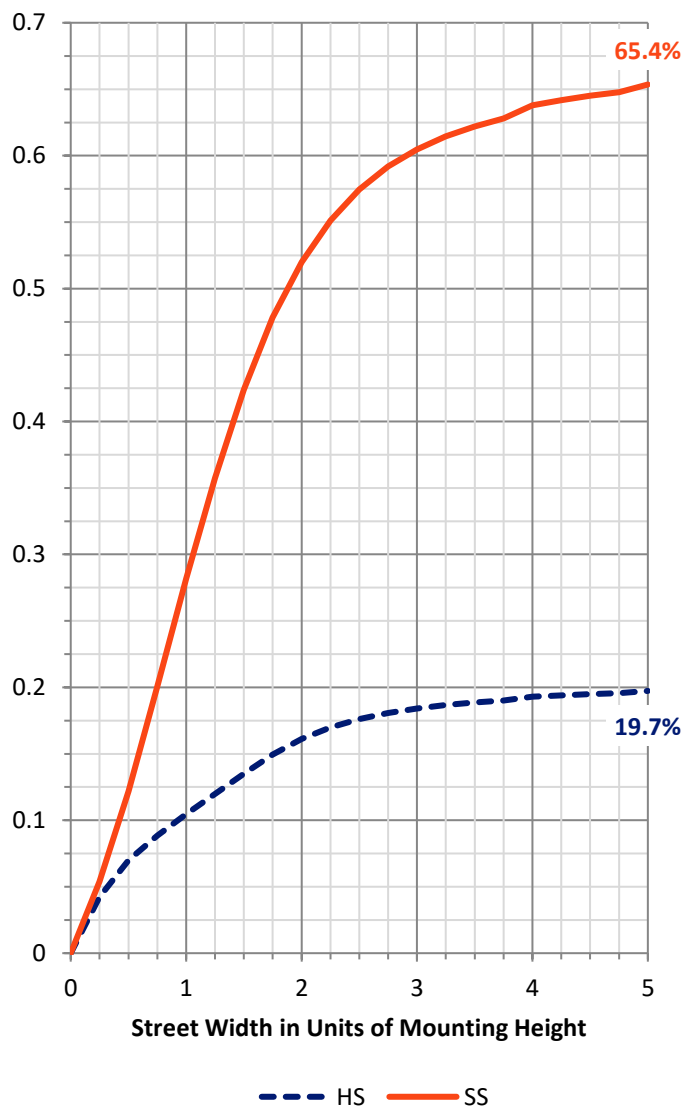
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	592.6	111.0	703.6
	% Fixture	20.5	3.8	24.4
Street Side	Lumens	1954.0	231.6	2185.6
	% Fixture	67.6	8.0	75.6
Total	Lumens	2546.6	342.6	2889.2
	% Fixture	88.1	11.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.2
10°-20°	19.3	0.7
20°-30°	39.0	1.3
30°-40°	82.5	2.9
40°-50°	192.4	6.7
50°-60°	573.4	19.8
60°-70°	918.8	31.8
70°-80°	527.8	18.3
80°-90°	187.2	6.5
90°-100°	110.4	3.8
100°-110°	66.7	2.3
110°-120°	50.2	1.7
120°-130°	42.5	1.5
130°-140°	28.2	1.0
140°-150°	26.5	0.9
150°-160°	11.7	0.4
160°-170°	4.9	0.2
170°-180°	1.6	0.1
0°-90°	2546.6	88.1
0°-180°	2889.2	100.0



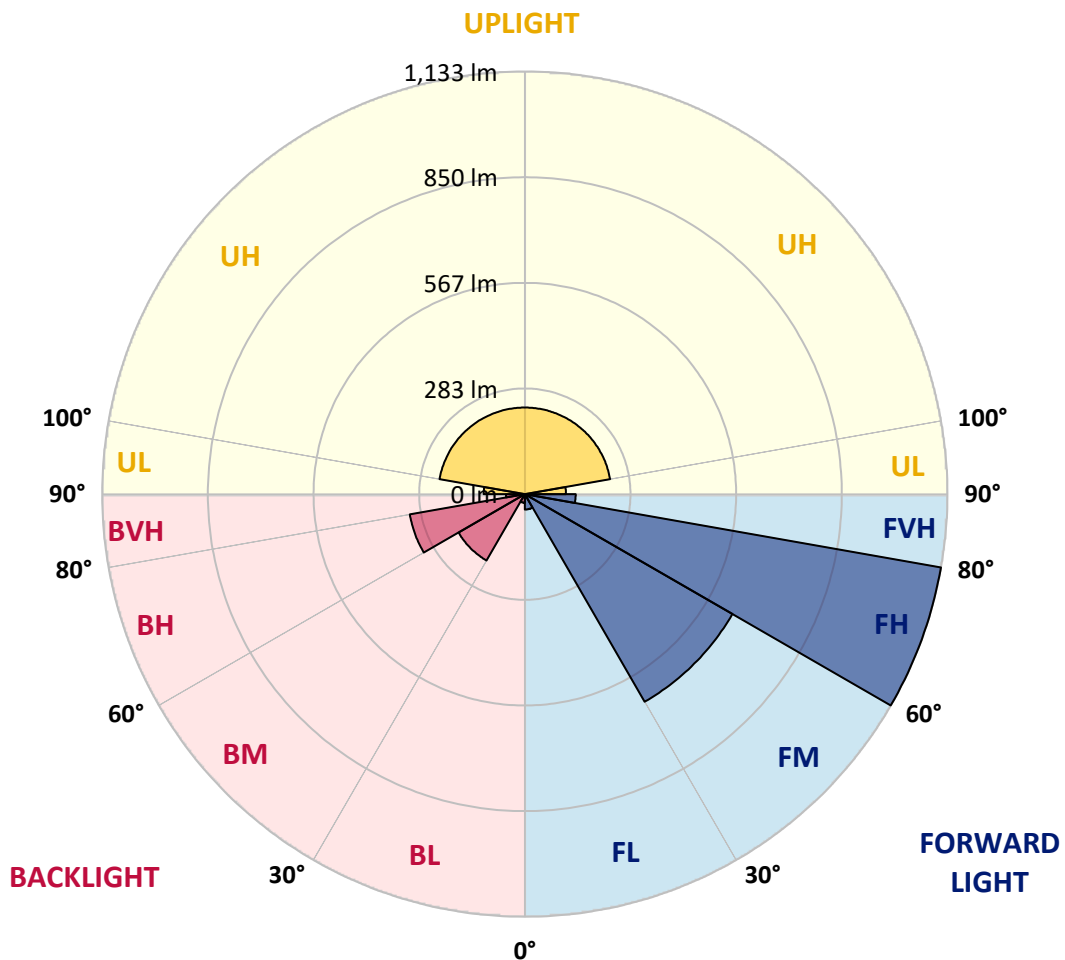
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	41.4	1.4			
FM (30°-60°)	642.9	22.3			
FH (60°-80°)	1133.4	39.2			G1/1800
FVH (80°-90°)	136.4	4.7			G2/225
BL (0°-30°)	23.1	0.8	B0/110		
BM (30°-60°)	205.4	7.1	B0/220		
BH (60°-80°)	313.2	10.8	B1/500		G1/500
BVH (80°-90°)	50.8	1.8			G1/100
UL (90°-100°)	110.4	3.8		U3/500	
UH (100°-180°)	232.2	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°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2.5°	79.9	79.3	80.8	82.1	83.6	81.4	77.8	81.4	82.7	86.3	89.1
5°	68.0	68.3	69.8	73.2	76.2	75.6	66.1	53.9	50.2	48.7	49.0
7.5°	67.4	67.1	66.1	65.8	67.7	74.4	73.5	64.6	57.9	52.1	46.2
10°	71.0	72.0	72.9	72.9	71.6	67.4	67.1	66.4	64.0	61.2	57.6
12.5°	87.9	89.1	90.0	87.0	83.0	78.7	75.3	69.8	67.4	65.8	63.1
15°	106.2	107.5	105.9	100.1	93.1	85.1	82.1	82.4	79.0	75.0	69.2
17.5°	116.0	115.4	109.0	102.3	96.8	90.6	86.3	83.6	82.4	80.8	75.0
20°	109.9	108.4	104.4	101.7	101.0	97.7	94.9	92.5	90.9	87.6	80.5
22.5°	105.3	105.3	104.7	104.1	107.8	106.2	105.0	101.7	99.5	95.2	84.8
25°	111.1	111.1	111.5	110.5	115.4	115.4	115.4	111.8	109.0	102.9	90.3
27.5°	119.4	119.1	120.0	119.4	123.7	124.6	126.5	123.7	119.7	112.4	96.5
30°	128.3	128.3	129.2	129.8	134.1	136.3	138.4	137.2	132.3	123.4	106.9
32.5°	137.8	137.5	140.2	143.3	145.7	149.7	150.6	153.7	148.8	138.4	122.2
35°	151.6	152.5	159.8	166.3	173.3	175.8	180.0	192.0	187.1	173.0	154.3
37.5°	219.2	214.6	212.8	205.5	204.5	218.9	224.1	235.5	225.7	206.7	178.2
40°	232.4	226.9	224.4	217.4	219.8	249.5	244.3	285.1	261.2	230.9	212.5
42.5°	218.9	218.0	246.8	252.3	249.2	296.4	286.3	361.6	336.2	265.8	245.3
45°	264.2	261.8	274.0	283.8	291.5	376.3	370.2	449.5	438.5	323.6	303.4
47.5°	298.2	295.8	309.9	342.6	387.3	479.2	515.0	634.7	597.4	445.2	399.3
50°	399.9	398.4	436.3	471.5	545.3	681.0	779.3	908.5	853.7	621.9	537.4
52.5°	496.0	500.9	545.3	613.0	691.1	936.0	1076.3	1166.9	1166.3	809.9	689.9
55°	564.9	581.5	633.8	756.0	864.4	1162.3	1351.5	1418.6	1474.9	1080.6	840.2
57.5°	698.7	727.5	777.7	898.7	1038.6	1436.0	1706.1	1695.1	1796.4	1361.3	1003.7
60°	836.2	869.9	886.7	997.9	1181.6	1699.7	1949.8	1924.1	2026.1	1605.7	1175.8
62.5°	879.1	912.1	928.7	1049.6	1284.8	1849.1	2062.2	2072.3	2135.7	1779.9	1277.7
65°	906.0	944.0	967.9	1076.9	1282.6	1914.3	2153.1	2162.6	2202.4	1854.9	1330.4
67.5°	901.1	943.7	974.3	1072.0	1211.6	1860.1	2130.5	2087.6	2140.9	1801.3	1275.0
70°	803.8	840.8	871.4	946.7	1011.4	1567.1	1843.3	1772.5	1827.7	1504.9	1052.7
72.5°	656.8	672.1	698.7	734.2	766.4	1162.6	1406.0	1345.4	1377.3	1128.9	788.8
75°	539.5	536.4	560.3	586.1	575.9	849.4	1112.4	1057.0	1086.7	857.3	629.2
77.5°	399.9	398.4	433.0	430.8	415.5	588.2	881.8	841.7	845.7	633.2	471.2
80°	240.4	245.0	278.6	285.4	267.3	369.0	629.5	610.5	582.1	432.6	330.4
82.5°	168.7	175.8	193.5	200.9	192.0	269.4	417.0	403.9	370.2	313.8	232.7
85°	172.1	173.3	175.4	176.1	172.1	241.9	323.6	316.3	314.2	263.0	192.0
87.5°	172.1	174.8	176.7	176.4	169.3	226.6	298.5	286.9	289.7	245.9	185.6
90°	154.3	159.2	158.9	159.8	154.0	204.8	270.7	261.2	264.9	221.7	168.7
92.5°	126.2	129.5	132.9	139.3	130.7	174.2	228.7	219.8	224.4	188.6	143.6
95°	117.3	120.3	122.5	125.8	117.3	154.9	202.4	191.7	193.5	160.1	121.6
97.5°	94.9	96.8	99.2	99.8	93.7	119.1	154.0	144.8	146.1	124.3	95.5
100°	79.6	81.1	83.3	83.3	79.3	98.6	121.9	117.0	116.4	101.7	80.8
102.5°	75.3	75.9	79.3	78.7	74.7	90.9	110.2	107.2	107.5	94.3	75.9
105°	74.1	74.1	77.5	75.9	72.6	86.7	103.2	102.3	102.0	89.7	72.9
107.5°	72.9	72.9	76.2	74.7	72.0	81.8	97.1	94.0	93.7	85.4	68.9
110°	68.0	68.9	72.6	70.7	68.6	77.2	89.1	87.0	87.0	80.5	65.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	60.3	60.9	64.3	62.8	61.2	68.6	79.0	76.2	76.5	72.3	61.5
115°	56.3	57.3	60.6	58.5	57.3	64.0	73.2	71.3	72.0	68.0	58.2
117.5°	56.6	57.0	59.4	59.7	57.3	62.8	67.7	68.3	69.2	66.7	59.1
120°	68.9	67.4	68.6	67.1	65.8	72.3	78.1	78.7	78.4	73.8	58.8
122.5°	69.5	66.4	69.8	67.7	66.4	73.5	79.9	81.4	79.9	75.9	60.0
125°	55.4	56.3	56.6	57.3	58.5	66.1	69.5	69.8	70.1	68.9	58.2
127.5°	48.7	48.4	46.8	47.2	49.9	56.6	59.1	60.9	59.7	59.1	52.4
130°	46.5	47.2	46.8	46.8	48.4	53.6	55.4	58.2	57.3	56.0	47.8
132.5°	42.9	43.5	46.2	49.6	49.0	50.8	51.4	54.2	54.5	54.5	48.1
135°	40.7	41.3	43.5	47.8	46.5	47.5	47.2	49.6	49.9	50.2	45.3
137.5°	41.6	41.9	40.7	41.3	42.3	46.2	47.5	49.9	49.9	48.7	42.3
140°	43.8	43.8	41.0	40.1	41.9	48.1	50.5	54.5	53.9	51.7	43.8
142.5°	40.4	41.0	42.6	44.4	48.4	65.2	65.2	72.9	75.3	75.9	53.0
145°	52.7	53.0	53.6	54.5	62.2	85.4	77.8	83.3	85.4	87.6	63.7
147.5°	60.6	61.2	60.6	58.2	65.2	73.2	69.5	72.0	74.4	75.0	64.0
150°	47.5	46.8	46.5	46.2	53.9	56.3	53.3	53.0	54.8	56.3	49.6
152.5°	34.6	34.3	34.0	33.7	40.4	38.9	36.7	36.7	37.4	37.7	34.9
155°	30.6	30.3	29.7	30.0	34.3	32.8	30.9	30.3	30.9	30.6	29.1
157.5°	25.1	24.5	24.5	25.7	27.9	26.0	24.8	23.9	24.2	23.9	24.2
160°	20.8	20.5	20.8	22.4	23.6	22.0	20.8	20.2	20.2	20.8	22.0
162.5°	18.7	18.4	18.7	19.3	19.9	18.4	17.5	17.5	17.8	19.0	21.4
165°	16.2	16.2	16.5	16.8	17.1	16.2	15.9	15.9	16.5	18.4	21.1
167.5°	15.6	15.6	15.6	15.6	15.6	15.3	15.0	15.9	16.5	17.5	19.3
170°	15.3	15.0	15.3	15.3	15.3	15.3	15.3	16.2	16.2	16.5	17.5
172.5°	15.6	15.6	15.6	15.9	16.5	16.8	16.5	17.1	16.8	16.8	16.8
175°	15.9	15.9	16.2	16.5	16.8	17.1	17.5	17.5	17.5	17.8	17.8
177.5°	15.9	15.9	16.2	16.5	16.8	16.2	15.6	15.3	15.0	15.0	15.0
180°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2.5°	86.7	79.0	68.3	72.9	87.0	84.2	70.1	61.5	62.2	68.3	68.9
5°	50.5	52.1	59.1	73.8	76.5	63.4	51.1	49.3	59.4	73.5	76.2
7.5°	45.6	45.6	51.4	71.6	80.5	66.1	49.9	45.0	52.7	64.3	66.1
10°	55.1	53.3	53.9	61.2	64.6	53.0	44.7	42.6	46.8	48.4	47.8
12.5°	62.2	63.4	69.2	67.7	53.0	43.2	40.4	40.1	42.6	44.1	43.8
15°	66.7	64.6	60.3	55.4	50.5	45.0	41.0	38.6	35.8	34.6	34.6
17.5°	71.0	66.7	59.1	54.5	49.6	45.6	41.9	38.3	37.0	37.4	37.4
20°	76.2	71.0	64.0	58.8	53.0	47.5	42.9	38.9	38.0	38.3	38.0
22.5°	80.2	75.6	68.3	61.5	55.4	49.3	44.7	40.7	39.5	39.2	39.2
25°	85.1	81.1	73.5	65.2	57.9	52.1	48.1	43.5	41.3	40.7	40.7
27.5°	91.6	88.2	79.6	70.7	62.2	55.4	51.1	46.2	43.2	41.9	41.6
30°	101.3	96.8	87.3	76.2	67.4	60.3	55.1	49.0	45.3	43.2	42.9
32.5°	116.0	110.2	97.7	83.9	73.2	65.8	59.4	51.7	47.2	44.7	44.4
35°	147.3	140.8	124.9	105.6	90.0	75.0	64.9	54.8	49.0	45.9	45.6
37.5°	166.9	155.2	135.9	118.5	99.5	90.6	77.8	64.3	51.4	47.5	46.8
40°	195.4	180.3	156.2	132.6	99.2	98.9	90.3	78.4	60.6	50.2	49.3
42.5°	216.5	197.2	166.9	140.5	100.1	102.9	95.5	85.1	72.0	58.5	57.0
45°	259.7	235.2	187.1	147.6	101.3	107.5	100.1	89.1	77.5	68.0	67.1
47.5°	340.5	306.5	226.3	161.1	115.1	122.8	109.6	96.8	85.4	75.9	73.8
50°	453.5	412.7	273.7	173.0	138.7	156.2	134.7	115.1	101.7	94.3	92.2
52.5°	586.1	540.4	303.4	191.7	167.2	197.2	173.6	150.6	132.9	134.1	132.9
55°	733.9	680.1	329.5	219.8	203.6	242.8	217.1	197.2	187.7	214.3	215.9
57.5°	876.6	819.1	345.7	249.5	244.3	295.5	265.5	251.4	255.1	333.1	351.5
60°	1012.9	921.9	358.2	277.4	278.6	336.8	313.8	311.1	322.4	422.5	450.4
62.5°	1091.6	974.6	357.6	295.5	300.1	362.2	342.0	343.5	352.1	437.2	460.5
65°	1145.2	1001.2	351.5	304.7	309.3	371.4	345.4	333.4	327.9	386.1	410.9
67.5°	1113.0	949.8	336.8	296.7	302.8	356.7	324.3	294.3	284.8	316.3	331.0
70°	940.9	793.7	300.1	269.8	273.7	301.0	273.4	240.7	231.2	247.7	254.4
72.5°	711.0	609.3	269.1	249.2	239.7	248.9	222.0	187.7	185.6	194.4	195.7
75°	568.0	478.3	245.3	224.7	199.3	208.8	176.4	139.6	136.9	137.5	134.4
77.5°	428.1	355.8	206.4	177.0	151.0	166.6	131.1	96.5	91.9	90.0	86.7
80°	293.0	247.1	140.2	118.5	107.2	122.2	93.4	70.7	70.4	69.8	66.1
82.5°	207.9	190.8	114.5	100.7	90.9	96.1	81.1	66.1	64.6	64.9	60.9
85°	181.9	172.7	110.5	102.0	92.5	92.2	77.5	61.9	61.2	61.5	57.9
87.5°	173.9	163.8	108.1	97.4	88.2	83.6	68.3	54.5	56.0	57.0	53.6
90°	155.9	145.4	98.0	87.0	78.1	70.1	57.9	49.3	51.7	52.4	49.3
92.5°	131.4	120.6	76.2	69.8	65.5	64.3	54.2	46.8	48.7	49.0	46.5
95°	111.1	101.3	66.4	61.5	58.5	58.2	49.0	42.6	43.5	43.2	41.0
97.5°	89.4	82.4	58.2	53.6	50.2	48.4	41.9	37.0	38.3	38.9	37.4
100°	76.2	72.3	54.2	50.2	46.2	43.8	38.3	34.3	35.5	36.7	35.5
102.5°	71.6	68.6	53.3	49.0	44.7	41.6	36.4	32.2	32.8	34.3	33.4
105°	68.0	65.2	51.7	47.2	43.2	39.8	35.5	30.3	30.0	31.5	31.2
107.5°	64.0	61.5	50.8	45.3	41.0	38.0	34.0	29.1	27.9	28.8	28.5
110°	61.9	59.4	49.0	43.2	38.6	35.8	32.2	28.2	26.6	26.9	26.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	57.6	54.8	45.0	39.5	35.8	33.4	29.7	26.9	25.1	25.7	26.0
115°	54.8	51.1	41.3	37.4	33.4	31.2	29.1	26.6	24.5	24.5	24.8
117.5°	56.6	49.6	38.6	35.5	33.4	32.8	32.2	28.5	24.2	23.9	23.9
120°	54.2	49.9	41.9	41.0	38.9	37.0	33.1	28.2	23.6	23.0	23.0
122.5°	53.0	52.1	47.5	44.4	40.4	36.7	30.9	25.7	22.7	22.0	22.0
125°	52.4	51.4	45.9	40.1	34.9	31.2	27.6	24.2	22.4	21.4	21.4
127.5°	48.1	43.8	37.0	33.7	30.3	28.8	25.7	23.6	21.4	20.2	20.2
130°	44.4	40.4	34.6	30.9	28.2	26.9	24.8	22.7	20.5	19.3	19.0
132.5°	43.8	39.8	33.7	29.1	26.6	25.4	24.2	21.7	19.3	18.1	17.8
135°	40.7	36.1	30.0	27.6	26.0	25.1	24.2	21.1	18.7	17.5	17.5
137.5°	37.7	33.1	28.5	27.3	26.0	25.1	22.4	19.3	17.5	16.5	16.5
140°	38.0	32.8	29.1	28.2	26.3	23.6	21.1	19.0	17.5	16.2	15.9
142.5°	40.4	34.0	29.4	26.6	25.4	23.9	23.0	20.5	17.5	15.3	14.7
145°	44.4	36.7	33.1	31.8	29.7	26.9	23.6	19.0	15.9	14.1	13.8
147.5°	49.0	41.3	37.0	33.7	29.4	24.8	20.2	16.5	14.1	13.5	13.2
150°	42.6	35.2	31.8	27.3	23.6	19.9	16.5	14.7	13.5	13.2	13.2
152.5°	32.2	26.3	23.6	21.4	19.3	17.5	15.6	14.4	13.5	12.9	12.9
155°	27.9	24.8	22.0	19.9	17.8	15.9	14.4	13.8	12.9	12.9	12.6
157.5°	24.5	23.0	19.3	17.5	15.9	15.0	14.4	13.5	13.2	12.9	12.9
160°	22.4	21.4	17.8	16.2	15.3	14.7	14.7	14.1	13.2	12.9	12.9
162.5°	21.7	20.8	17.1	15.6	14.7	15.0	15.6	15.3	14.1	13.5	13.5
165°	21.4	20.8	17.5	15.3	14.7	15.0	16.5	16.8	15.3	14.4	14.1
167.5°	19.6	19.3	18.4	16.8	15.9	15.9	16.8	17.1	16.5	16.5	16.2
170°	17.8	17.8	18.1	18.4	17.8	16.8	16.2	16.2	17.1	18.1	18.4
172.5°	17.1	17.5	18.1	19.0	19.0	17.8	16.8	16.5	17.5	18.7	19.0
175°	18.1	18.4	18.7	18.7	18.1	17.8	17.5	17.1	17.8	19.0	19.3
177.5°	15.0	15.0	15.3	15.3	15.0	15.3	15.0	14.4	14.4	14.4	14.4
180°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1

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: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

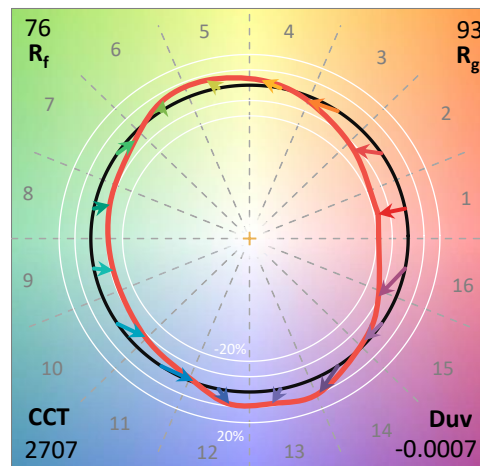
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

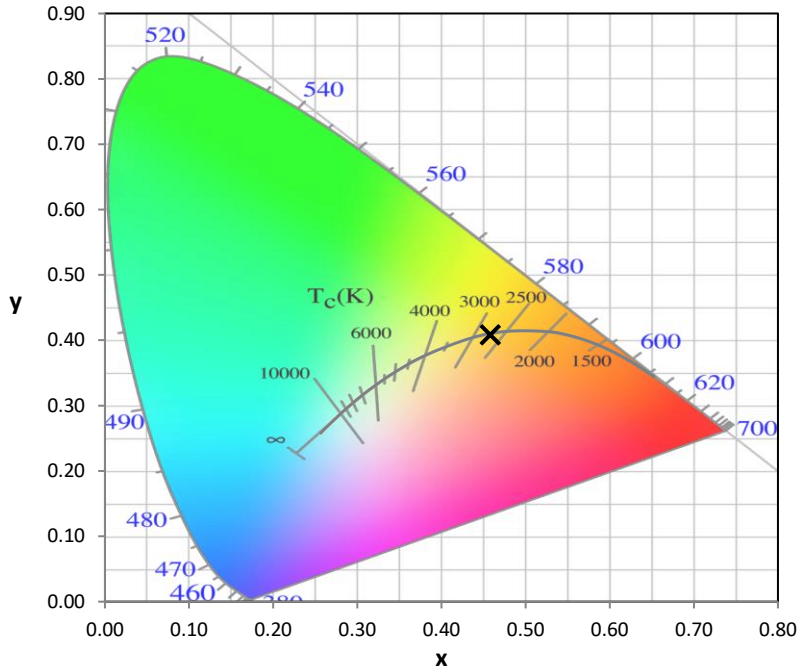
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

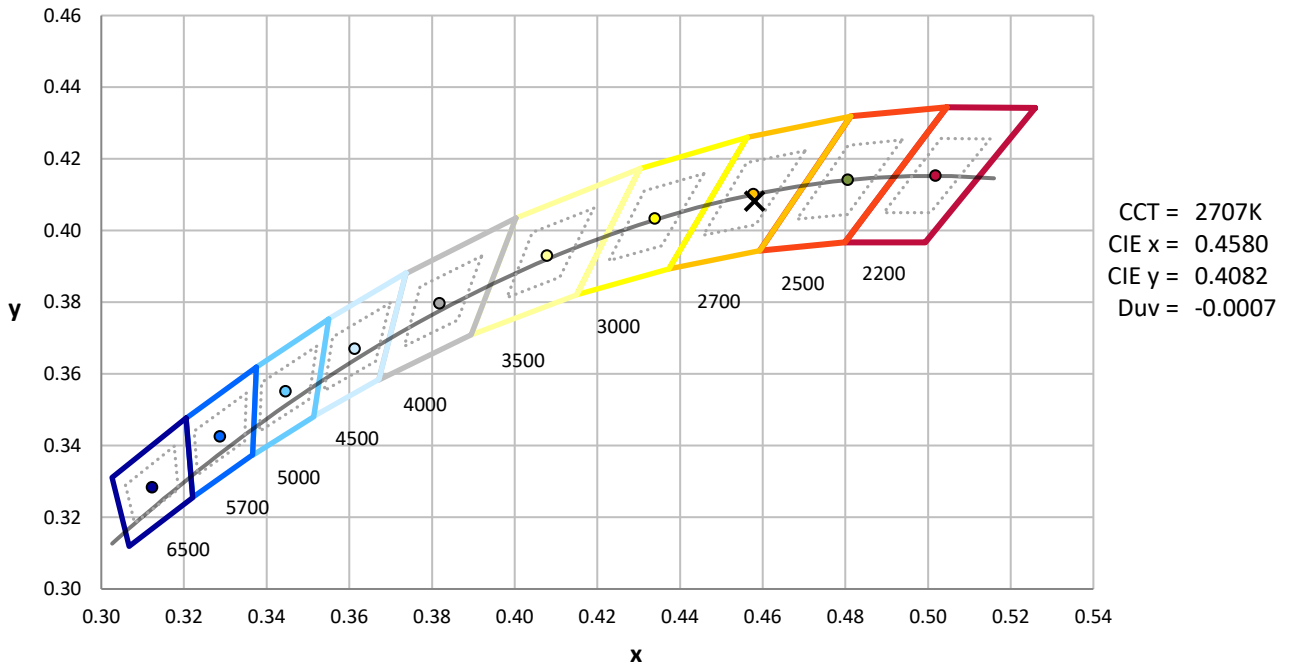
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



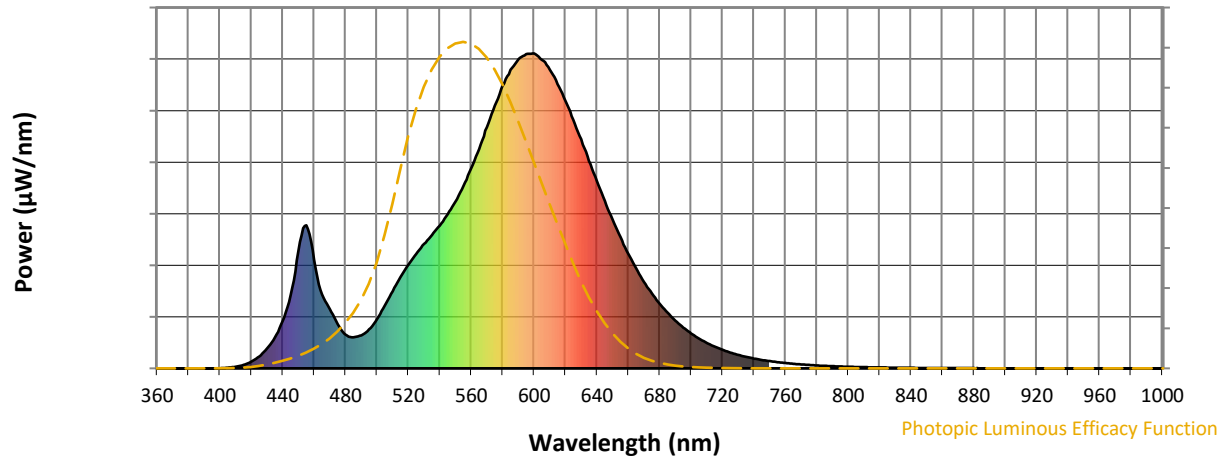
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2406-133-3

Photopic Flux vs. Wavelength

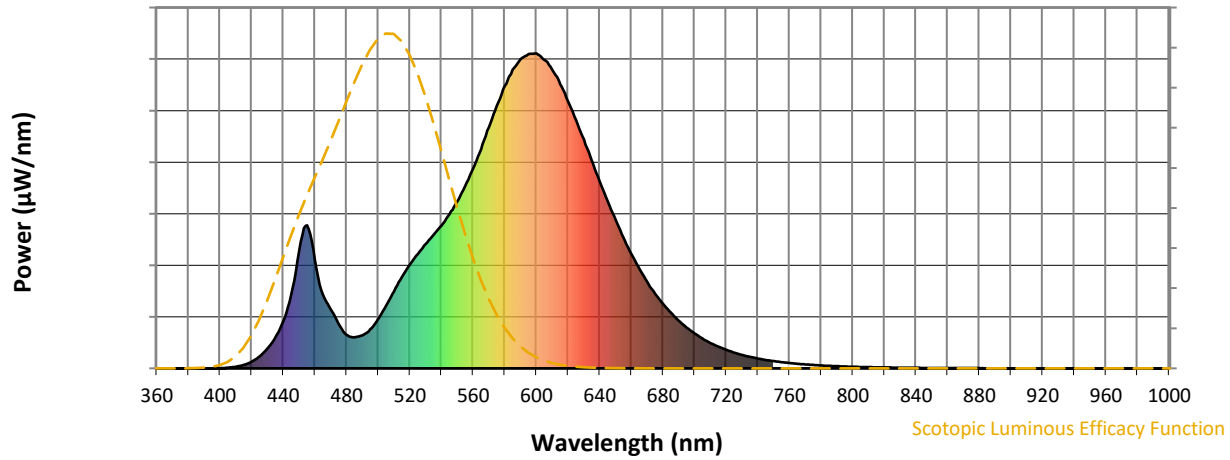


Photopic Lumens: NR

λ (nm)	Power W [^] /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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



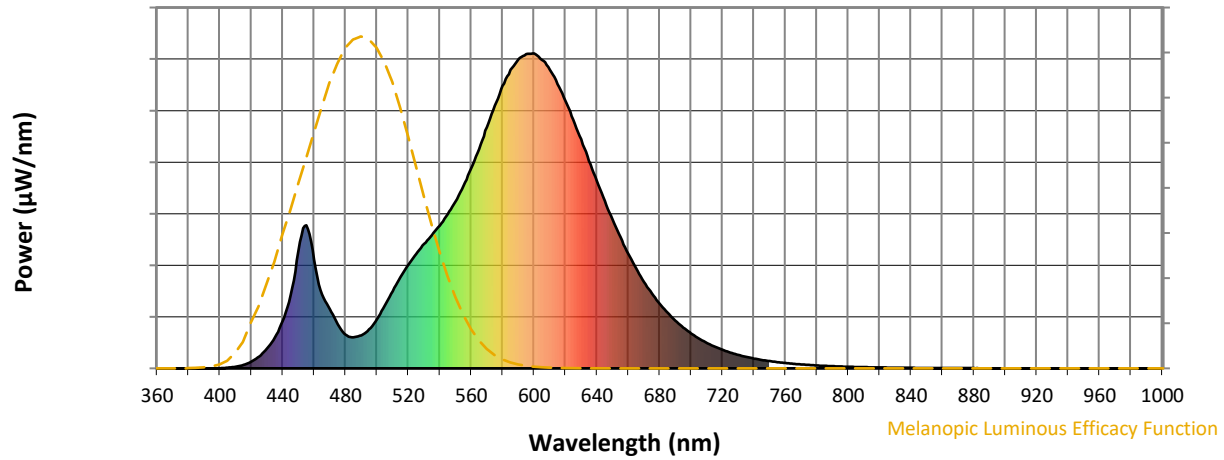
Scotopic Lumens: NR

S/P: 1.12

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	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

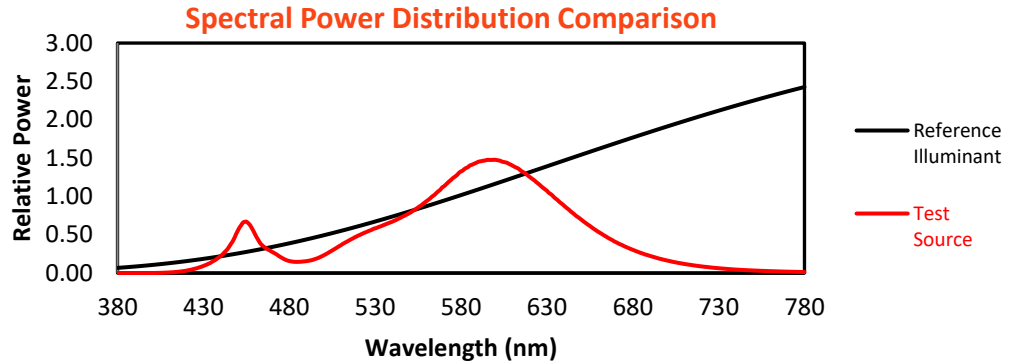
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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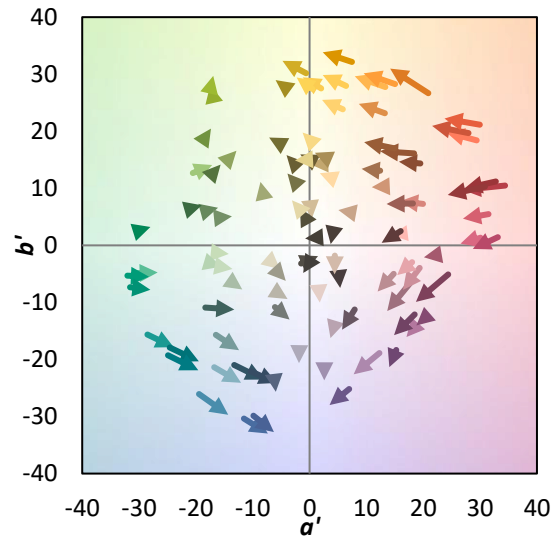
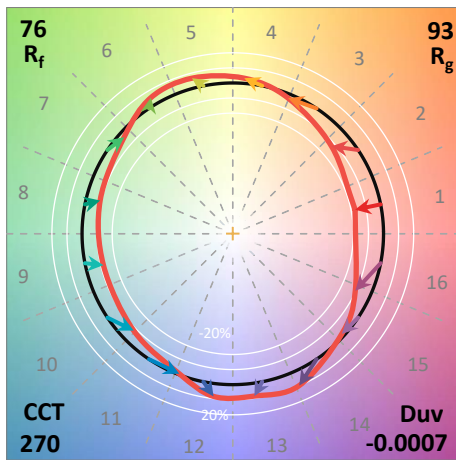
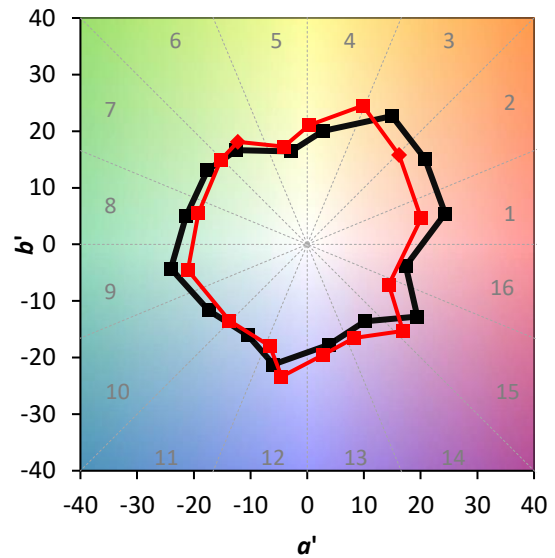
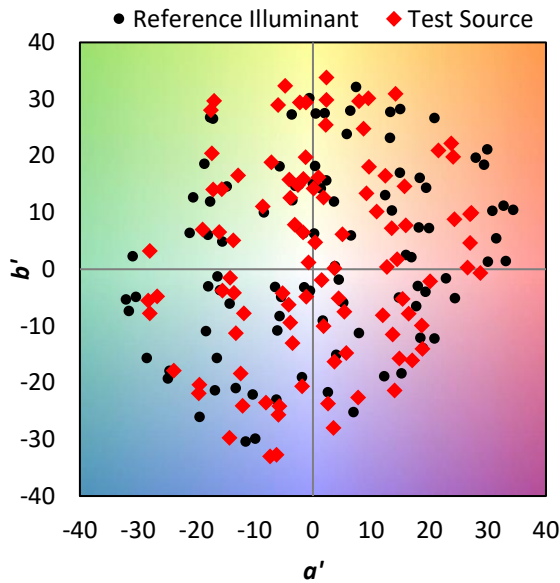
TM-30-18

Summary

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



Color Vector Graphics

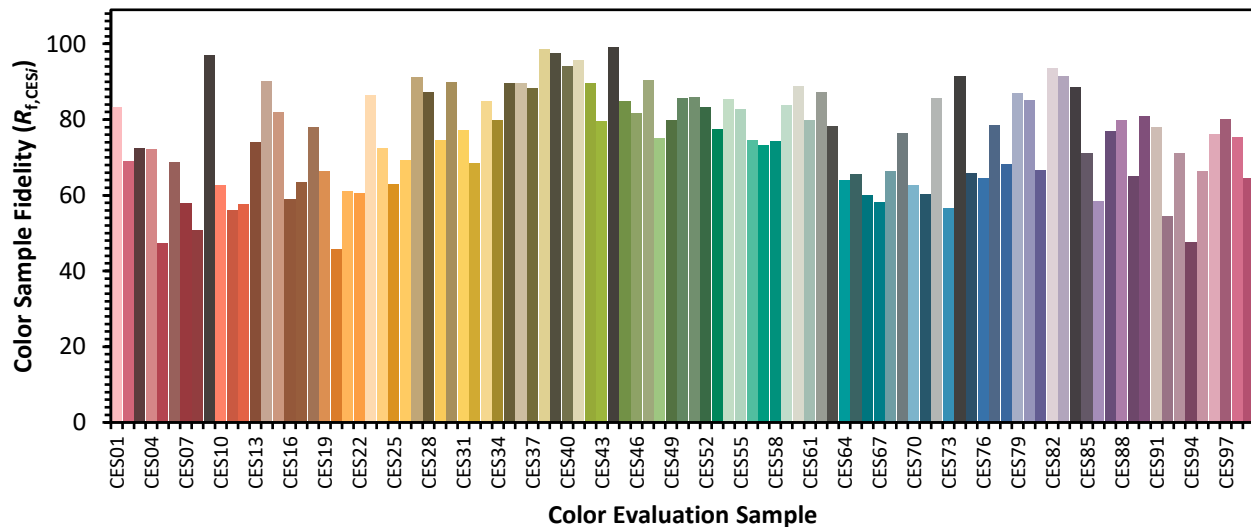


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TM-30-18

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

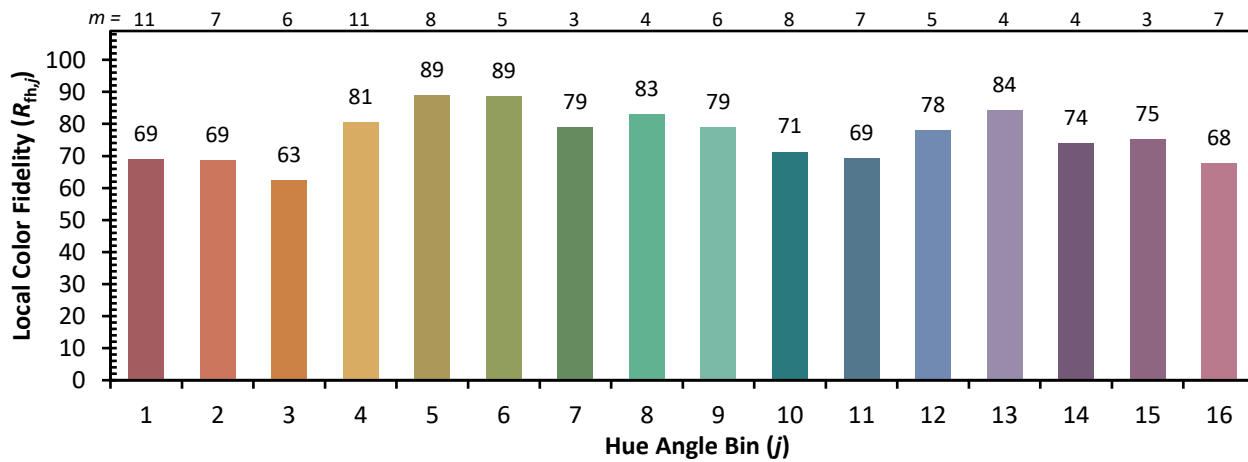
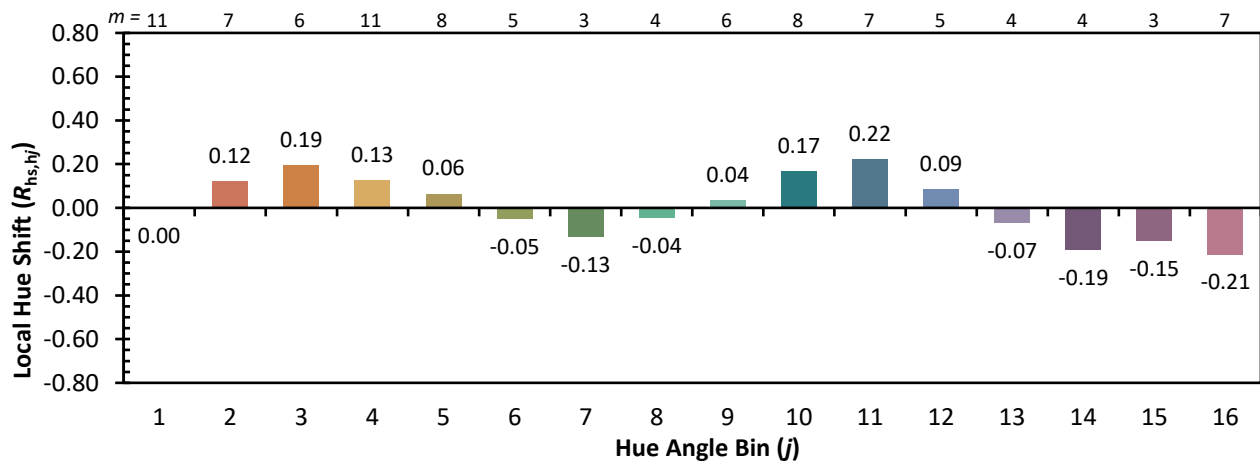
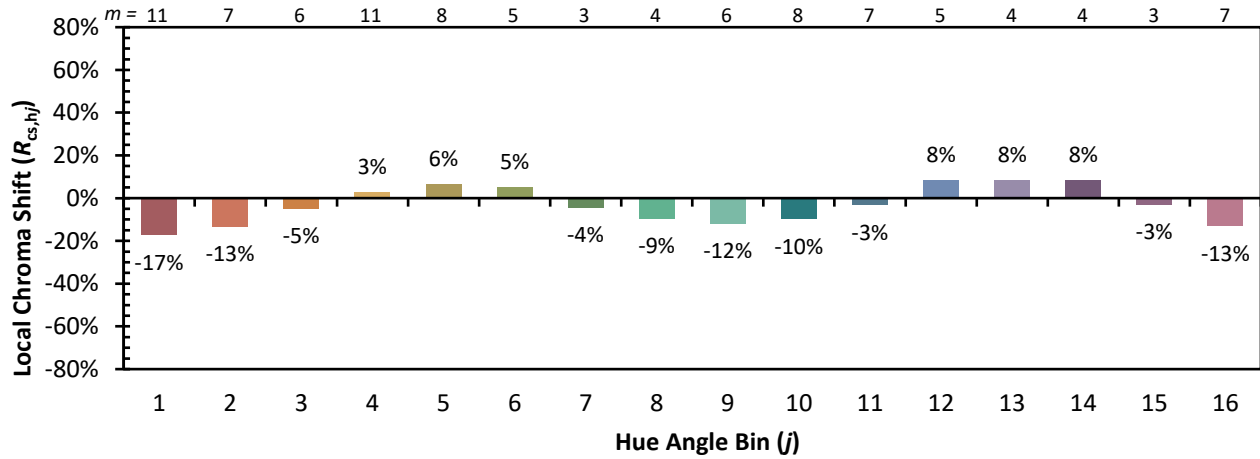
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CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



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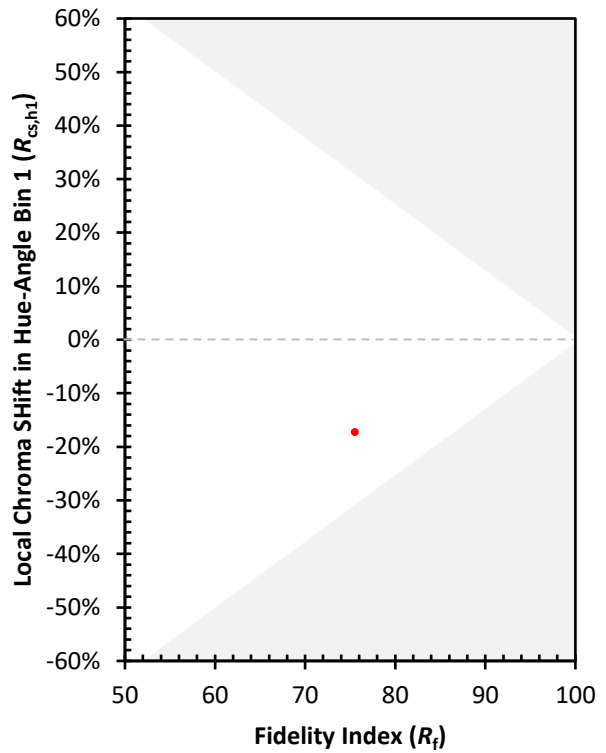
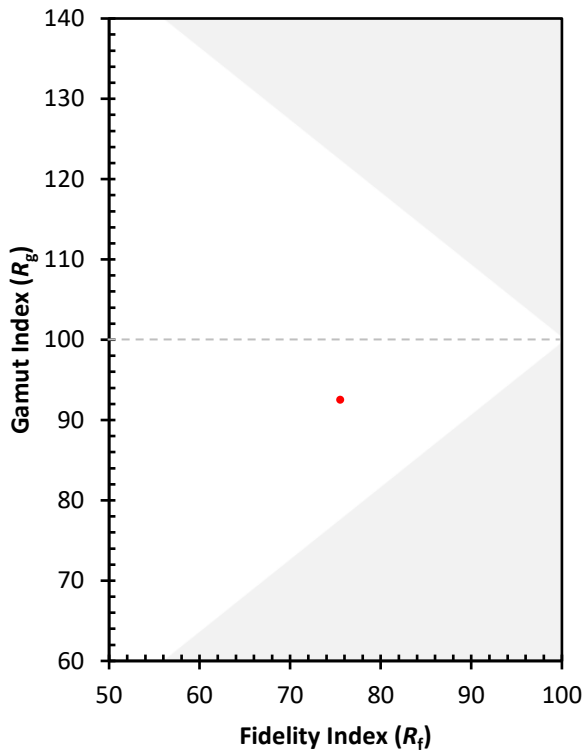
Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-2406-133-3

TM-30-18

Measure Comparisons



(END OF REPORT)