

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: P856118

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

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856118
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
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

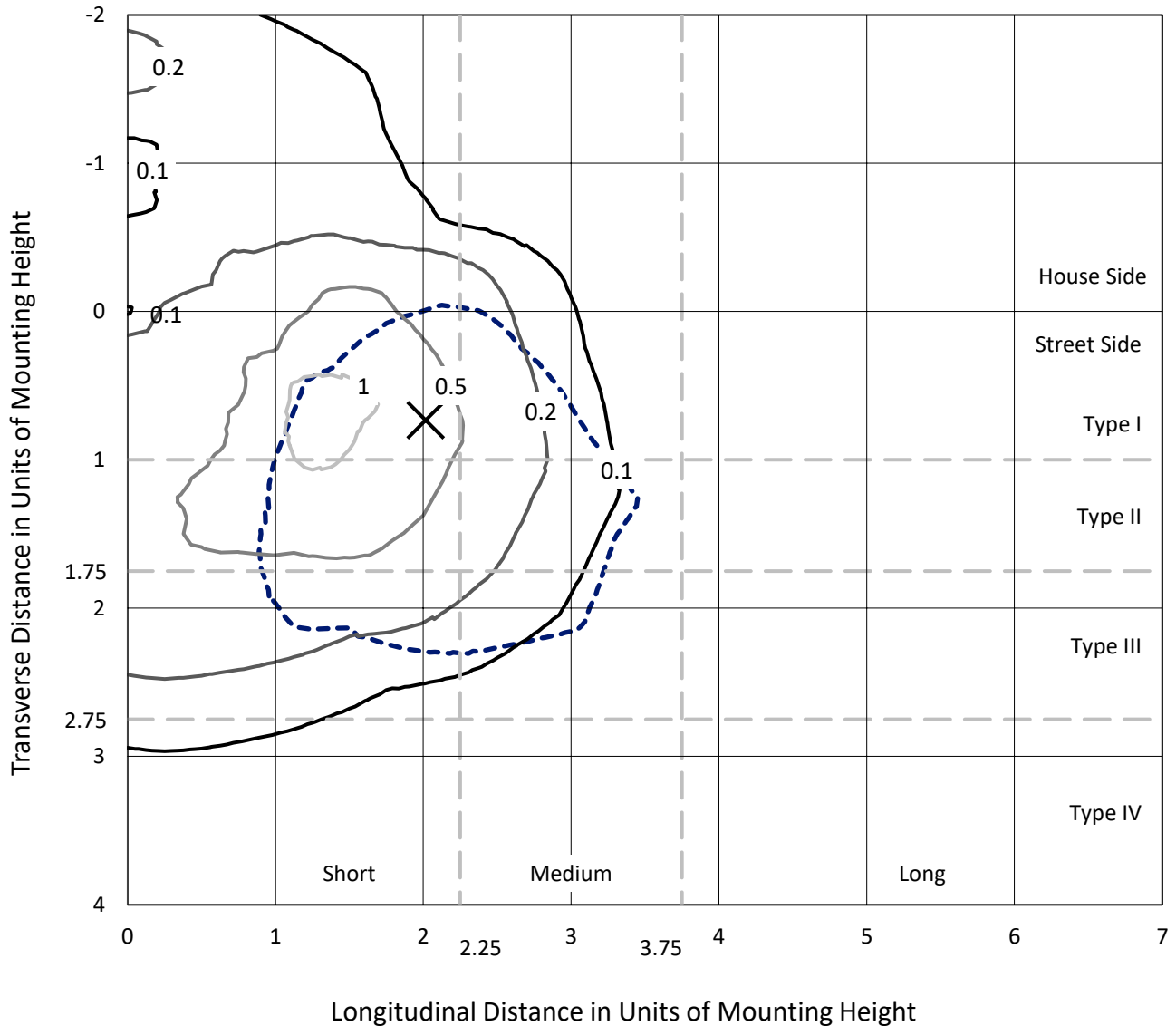
Lumens per Lamp: N/A
Luminaire Lumens: 2911.4 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U3 - G2

Input Watts (W): 19.5
Input Voltage (V): 120
Input Current (A_{in}): 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

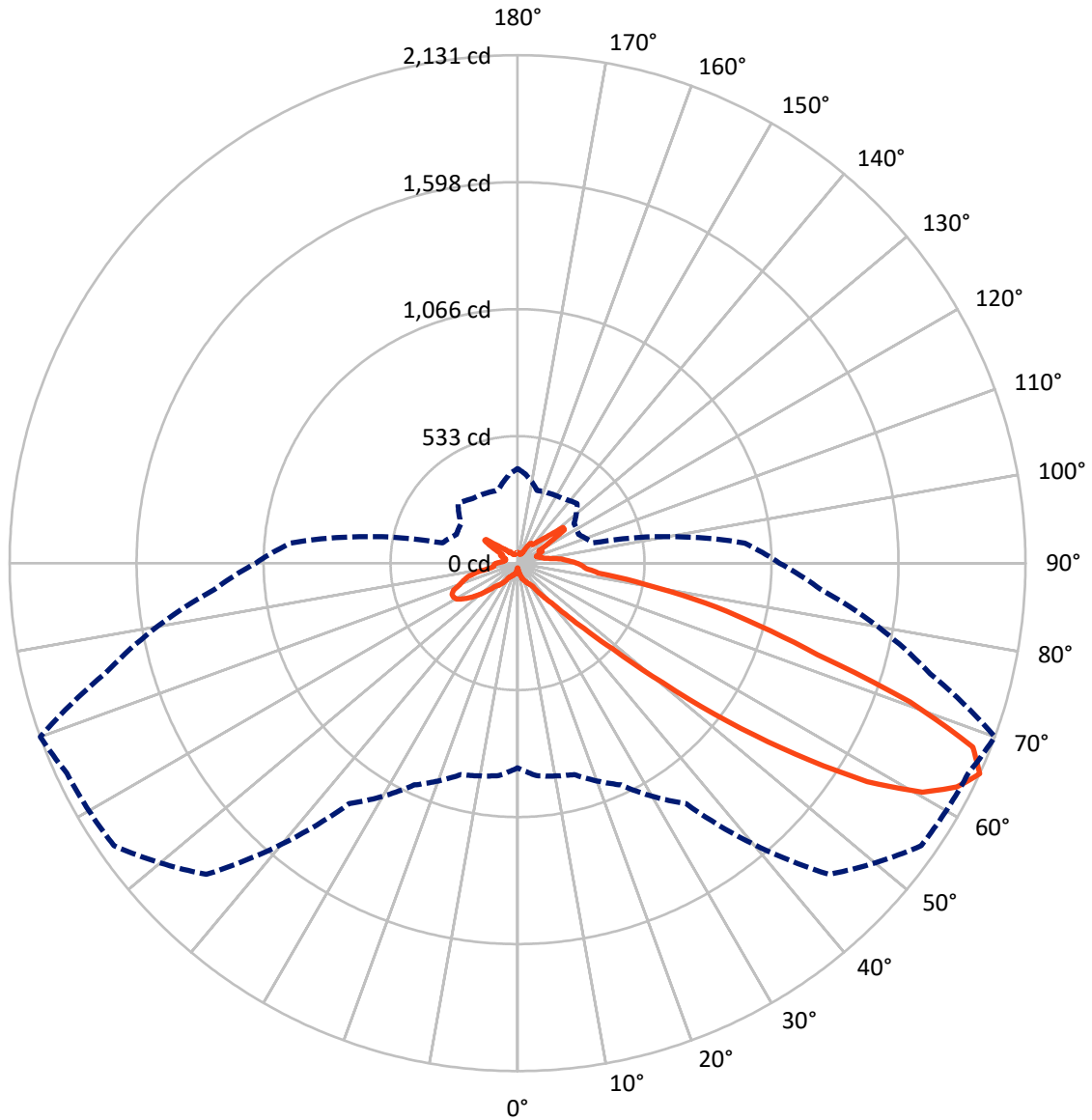
× Max cd
 - - - 1/2 Max cd



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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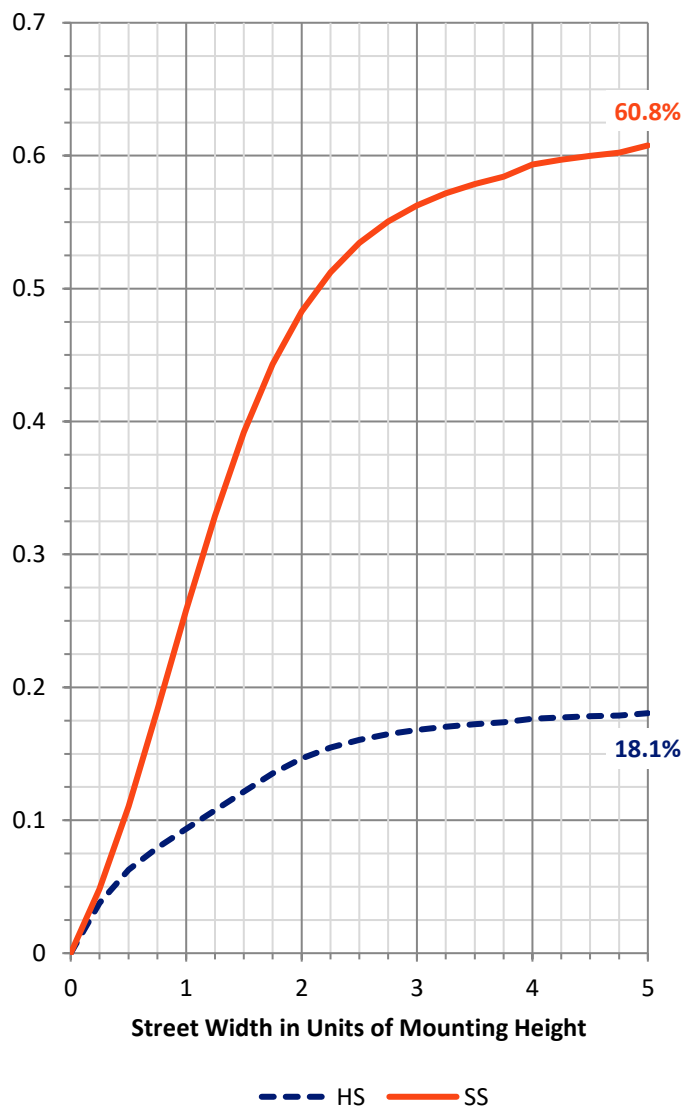
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.4	195.6	744.0
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	1828.8	338.5	2167.3
	% Fixture	62.8	11.6	74.4
Total	Lumens	2377.2	534.2	2911.4
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.1
10°-20°	15.3	0.5
20°-30°	32.4	1.1
30°-40°	65.9	2.3
40°-50°	167.6	5.8
50°-60°	538.8	18.5
60°-70°	879.3	30.2
70°-80°	500.6	17.2
80°-90°	174.2	6.0
90°-100°	108.4	3.7
100°-110°	69.0	2.4
110°-120°	75.9	2.6
120°-130°	128.4	4.4
130°-140°	75.7	2.6
140°-150°	40.7	1.4
150°-160°	20.6	0.7
160°-170°	11.3	0.4
170°-180°	4.1	0.1
0°-90°	2377.2	81.7
0°-180°	2911.4	100.0

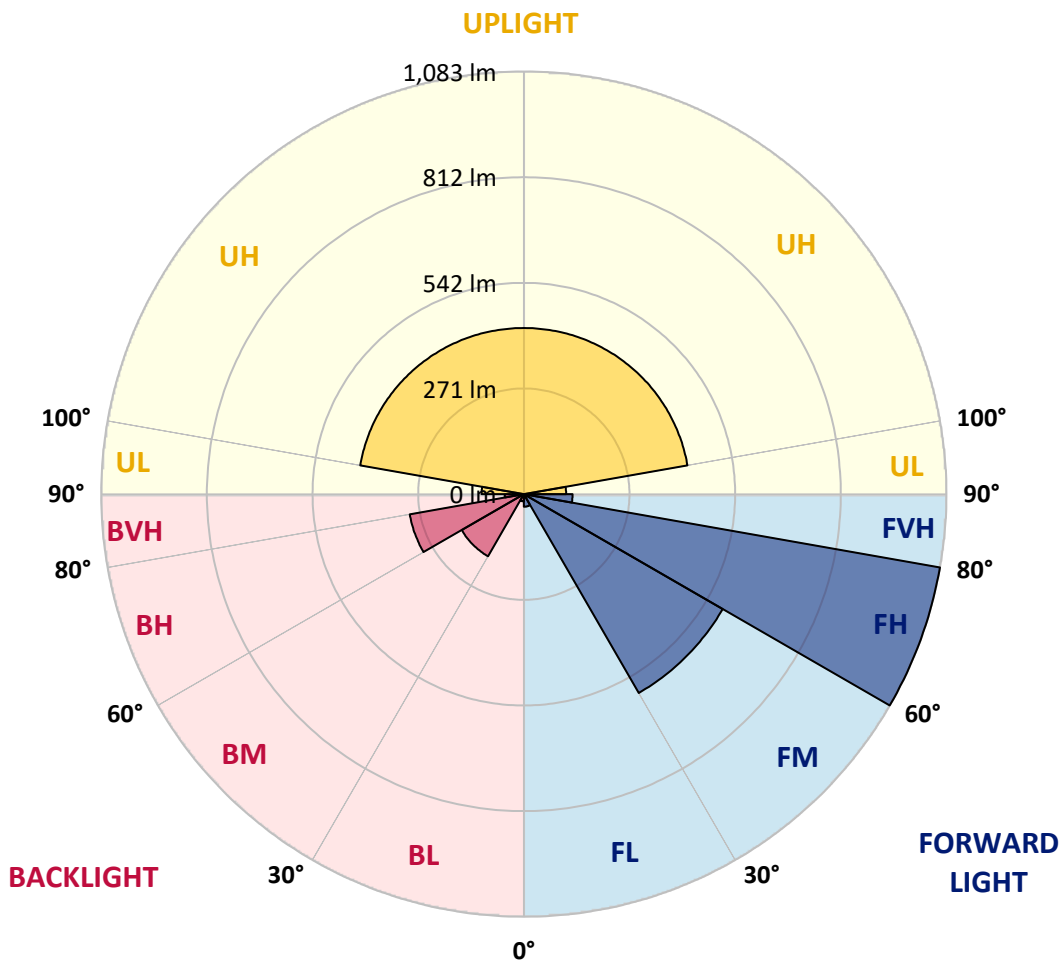


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	32.3	1.1			
FM (30°-60°)	588.6	20.2			
FH (60°-80°)	1083.0	37.2			G1/1800
FVH (80°-90°)	124.9	4.3			G2/225
BL (0°-30°)	18.4	0.6	B0/110		
BM (30°-60°)	183.8	6.3	B0/220		
BH (60°-80°)	296.9	10.2	B1/500		G1/500
BVH (80°-90°)	49.3	1.7			G1/100
UL (90°-100°)	108.4	3.7		U3/500	
UH (100°-180°)	425.8	14.6		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°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	23.1	23.1	23.7	23.7	23.7	23.1	22.8	22.2	22.2	22.2	21.9
5°	30.0	29.7	30.0	30.9	31.2	30.3	29.7	28.8	28.8	28.5	28.5
7.5°	40.5	40.2	39.6	38.7	39.0	39.9	41.1	38.7	38.1	36.6	36.0
10°	50.7	50.1	50.7	49.2	47.7	45.6	46.8	46.2	45.0	43.5	42.3
12.5°	61.8	62.1	63.3	62.1	59.7	56.4	55.8	54.3	53.1	52.8	51.0
15°	73.2	73.5	74.7	74.4	72.0	67.5	65.7	64.2	63.6	61.8	57.9
17.5°	79.2	79.5	79.8	80.1	78.6	75.0	72.3	69.6	68.7	68.1	63.3
20°	82.2	81.6	82.2	83.4	84.6	81.6	78.9	77.4	76.5	74.4	68.1
22.5°	87.0	86.4	86.1	87.0	90.6	88.5	85.8	84.3	83.4	80.7	71.1
25°	92.1	91.5	92.4	91.8	96.3	95.4	92.7	91.2	90.0	86.7	75.6
27.5°	97.8	97.2	98.1	97.5	101.1	101.7	99.9	98.7	96.9	92.1	78.9
30°	102.6	102.0	102.9	102.6	106.2	108.3	107.4	107.1	104.4	98.7	84.6
32.5°	106.5	106.2	108.3	109.2	110.1	114.9	114.3	117.0	114.0	107.1	93.0
35°	115.5	116.4	122.1	128.1	129.0	138.6	139.8	149.7	146.7	137.7	120.6
37.5°	178.5	175.2	169.5	163.8	161.7	180.3	183.0	192.9	185.4	168.6	141.0
40°	190.2	184.8	178.2	173.7	174.3	207.6	201.9	239.4	218.1	192.9	172.2
42.5°	180.6	178.8	201.9	212.7	204.9	253.5	243.9	315.3	291.0	229.2	207.9
45°	226.5	222.9	231.0	241.8	244.2	333.6	327.0	401.7	391.8	286.5	266.7
47.5°	259.2	255.9	266.7	303.3	334.8	431.4	467.4	575.2	540.3	407.1	361.2
50°	357.3	356.7	390.0	433.5	488.7	627.7	723.4	844.3	788.2	576.4	495.3
52.5°	454.2	455.4	496.2	573.4	630.7	876.1	1012.0	1096.6	1104.1	751.6	642.1
55°	527.4	534.9	584.2	713.5	800.2	1097.2	1273.6	1339.3	1414.3	1015.6	794.8
57.5°	670.3	681.7	728.5	855.1	976.3	1372.6	1610.8	1618.0	1730.0	1308.4	958.6
60°	795.1	821.8	838.3	953.2	1118.5	1635.7	1861.4	1847.0	1952.0	1551.1	1124.8
62.5°	833.8	864.4	880.0	1002.4	1231.0	1783.4	1978.4	1996.4	2068.7	1721.6	1226.5
65°	859.0	895.0	918.4	1026.7	1232.2	1846.4	2067.2	2086.4	2131.1	1793.0	1277.2
67.5°	846.1	892.0	922.0	1018.3	1167.4	1797.8	2049.5	2012.6	2060.0	1733.3	1220.5
70°	738.7	786.7	817.0	888.7	976.0	1511.5	1766.9	1705.1	1746.8	1446.7	1003.6
72.5°	601.9	625.6	644.2	683.5	735.7	1114.9	1342.6	1291.3	1316.2	1088.5	752.2
75°	494.4	501.6	524.7	547.2	555.9	815.5	1063.6	1016.8	1045.9	828.7	598.6
77.5°	359.1	363.3	396.3	399.9	397.8	559.6	838.3	797.2	806.5	616.0	446.7
80°	208.5	216.6	259.8	257.7	254.1	344.7	590.2	573.7	544.8	418.2	309.3
82.5°	147.0	155.1	174.9	179.4	177.0	247.5	383.1	372.3	341.1	291.0	213.9
85°	154.8	155.7	156.6	158.7	154.8	220.8	293.4	288.0	288.3	240.6	176.4
87.5°	152.7	156.3	157.8	158.7	154.8	209.7	272.7	265.8	269.1	228.6	171.3
90°	134.1	140.7	141.3	142.8	140.7	187.2	244.8	238.2	242.4	206.1	156.0
92.5°	109.5	113.1	117.3	123.0	120.6	160.2	208.2	203.4	208.5	178.5	137.1
95°	103.8	107.7	110.4	114.3	110.7	146.1	188.1	178.5	182.7	156.3	118.2
97.5°	85.8	89.1	91.5	93.0	90.3	115.2	144.3	137.7	137.4	120.9	94.5
100°	73.2	75.3	77.4	78.9	76.5	95.4	114.3	111.9	112.5	99.9	81.3
102.5°	69.6	70.8	74.1	74.4	71.7	87.0	102.9	102.0	103.2	92.4	76.2
105°	68.1	69.0	71.7	70.8	68.4	81.3	94.8	95.4	95.4	86.1	71.4
107.5°	63.6	65.1	68.1	66.6	65.4	75.0	87.3	85.2	85.8	80.1	67.8
110°	63.0	64.2	67.2	66.0	65.1	73.2	84.0	83.4	84.3	79.2	69.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	78.3	77.1	79.5	77.1	78.6	85.5	96.9	95.7	98.4	96.6	87.0
115°	96.6	97.2	99.6	94.8	96.3	103.2	109.5	111.6	114.0	111.3	101.4
117.5°	89.4	94.5	91.5	90.9	89.7	95.1	94.2	99.6	102.0	99.9	96.0
120°	95.7	102.0	93.3	88.8	87.0	100.5	107.1	106.8	105.0	100.8	92.7
122.5°	143.1	144.0	144.6	158.1	153.3	166.5	170.4	165.3	165.3	170.7	154.2
125°	223.2	224.1	223.5	229.5	226.2	238.8	243.9	243.6	240.6	237.9	221.7
127.5°	225.6	225.6	223.5	220.2	223.2	235.5	235.8	247.2	243.3	236.1	221.1
130°	157.5	158.7	166.2	168.6	172.8	175.5	172.5	182.4	184.2	183.0	172.8
132.5°	130.5	132.6	140.7	143.7	146.4	146.7	145.5	153.3	155.1	155.1	150.6
135°	112.8	115.2	116.1	114.6	118.5	121.5	123.9	130.2	129.6	128.4	124.5
137.5°	98.4	99.3	96.6	93.3	95.4	104.1	108.9	115.5	115.2	113.1	106.5
140°	83.1	83.4	81.9	80.4	82.5	90.0	94.5	101.7	100.8	99.3	91.5
142.5°	63.0	63.9	67.8	70.8	75.9	91.5	89.1	95.4	99.9	103.5	85.5
145°	66.3	65.1	64.5	67.8	74.4	96.9	90.0	98.1	100.2	102.6	81.9
147.5°	76.5	77.1	76.2	74.1	83.1	90.3	86.4	93.6	94.8	94.2	85.8
150°	60.0	60.9	61.2	60.3	71.4	71.1	67.2	72.6	73.2	73.2	67.5
152.5°	48.9	49.2	48.6	48.0	55.2	54.0	52.2	54.0	53.7	53.4	52.2
155°	46.5	46.5	45.9	46.2	51.0	49.8	48.6	49.8	49.2	48.3	47.1
157.5°	42.9	43.2	43.2	44.1	47.1	45.0	43.8	44.4	43.8	43.2	43.2
160°	40.5	40.5	40.8	42.0	43.8	41.7	40.8	41.1	40.8	40.2	40.5
162.5°	39.6	39.6	39.9	40.5	40.8	39.6	38.7	38.7	38.7	38.7	39.6
165°	39.0	39.0	39.0	39.3	39.3	38.4	38.1	38.4	38.7	39.0	40.2
167.5°	40.2	40.2	40.2	40.2	39.9	39.3	39.0	39.3	39.6	39.9	40.8
170°	42.0	41.7	41.7	41.4	41.1	40.5	40.2	39.9	39.9	40.2	40.5
172.5°	43.2	43.2	42.9	42.9	42.6	42.0	41.4	41.1	41.1	41.1	41.1
175°	44.7	44.7	44.7	44.7	44.4	43.8	43.5	42.9	42.9	42.9	42.9
177.5°	46.5	46.5	46.5	46.5	45.9	45.3	44.7	44.1	44.1	44.1	43.8
180°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	21.6	21.3	20.4	20.1	19.8	19.2	18.6	18.3	18.0	18.0	18.3
5°	28.8	28.5	28.5	27.6	26.7	25.2	24.6	24.6	24.9	25.2	25.8
7.5°	36.3	36.9	37.5	36.0	33.3	29.7	27.6	28.2	29.7	30.9	30.9
10°	42.0	42.0	44.1	42.3	37.8	33.3	30.3	29.7	30.0	30.3	30.6
12.5°	50.1	50.1	48.9	44.1	39.6	35.1	32.7	32.1	32.1	30.9	30.6
15°	56.1	54.3	50.1	45.6	41.7	37.2	34.5	33.6	32.7	31.8	31.5
17.5°	59.7	56.4	50.7	46.5	42.6	39.0	36.3	34.5	33.6	33.9	33.9
20°	63.9	60.3	55.2	50.7	45.9	41.1	37.8	35.1	34.2	34.5	34.2
22.5°	67.2	63.6	58.5	53.4	48.3	43.2	39.3	36.0	34.8	35.1	35.1
25°	71.1	68.1	62.7	56.7	50.4	45.6	41.7	37.8	36.0	35.7	35.7
27.5°	75.0	72.9	67.2	60.0	53.4	47.7	43.8	39.3	37.2	36.3	36.3
30°	80.1	77.7	72.0	63.3	56.1	50.7	46.5	41.7	38.7	37.2	36.9
32.5°	88.2	85.5	78.6	69.3	59.1	53.7	49.2	43.8	39.9	38.1	37.8
35°	114.6	110.4	99.6	88.8	72.3	60.0	52.5	45.6	41.1	38.7	38.4
37.5°	131.1	120.9	106.5	99.3	81.3	73.5	63.3	52.2	42.9	39.9	39.3
40°	157.8	143.7	125.7	111.6	79.2	80.4	74.1	65.1	51.0	42.0	41.1
42.5°	180.3	162.6	135.3	117.0	79.5	84.0	79.2	71.7	61.2	49.8	48.0
45°	222.3	199.5	157.2	125.7	81.6	89.4	83.4	75.6	66.3	58.5	57.6
47.5°	300.3	269.4	196.5	140.1	95.4	103.8	93.0	82.8	74.4	65.4	63.9
50°	411.0	374.1	241.8	151.5	119.1	136.8	117.3	100.2	90.6	84.0	83.1
52.5°	538.5	499.8	275.1	172.5	147.9	177.6	155.1	135.3	122.7	122.7	124.5
55°	686.8	648.1	301.8	201.6	183.3	222.6	198.3	182.1	176.1	201.6	208.5
57.5°	833.8	784.6	319.8	231.3	224.7	275.4	246.3	232.5	243.6	319.2	342.6
60°	967.9	886.6	333.9	259.5	260.1	317.4	295.8	294.9	312.0	408.6	438.3
62.5°	1045.3	934.6	333.0	275.7	280.8	343.5	325.5	330.3	339.9	423.6	446.1
65°	1098.4	957.4	326.1	282.9	289.5	352.8	330.3	322.2	315.9	375.0	396.6
67.5°	1061.8	904.0	310.5	272.4	284.1	339.3	309.6	286.5	274.2	304.2	318.9
70°	889.3	754.0	274.8	245.1	255.9	285.9	257.4	234.6	221.7	237.9	244.8
72.5°	673.6	573.7	247.8	229.2	224.4	236.4	209.4	183.9	176.1	186.6	188.1
75°	536.4	448.8	228.0	207.3	188.4	200.1	167.1	136.2	131.7	131.7	129.3
77.5°	402.3	332.7	194.4	161.4	138.9	158.1	124.5	94.8	88.8	87.6	84.3
80°	269.7	226.5	130.8	107.1	99.9	117.3	88.5	69.6	69.9	69.6	65.7
82.5°	188.4	174.9	106.2	93.3	85.5	92.4	80.1	66.9	66.3	66.9	62.7
85°	167.1	160.2	102.9	96.3	88.2	89.1	76.8	63.3	63.6	64.8	61.2
87.5°	160.5	152.7	103.2	93.0	86.1	82.5	69.6	58.5	60.3	61.5	58.5
90°	144.6	136.8	94.8	84.0	76.8	71.7	61.5	55.5	57.9	59.1	56.4
92.5°	125.4	117.3	78.9	74.1	72.3	72.3	64.5	59.1	60.6	61.2	58.8
95°	108.0	100.2	70.2	65.1	63.6	63.9	57.6	53.1	54.0	53.7	51.9
97.5°	87.3	82.5	61.2	57.9	56.4	55.8	51.6	48.3	50.1	51.3	49.8
100°	77.1	74.7	59.1	56.7	54.6	54.3	50.7	48.6	50.1	51.9	50.7
102.5°	72.0	70.2	56.4	53.1	51.6	51.0	48.6	46.2	47.7	49.5	48.6
105°	67.8	65.1	54.0	51.0	48.9	48.6	46.2	43.2	44.1	46.5	45.9
107.5°	64.2	62.4	53.7	50.4	47.7	47.7	45.0	42.6	42.9	43.8	43.8
110°	67.2	65.1	55.8	53.4	49.8	48.6	48.0	46.2	44.7	44.1	44.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	83.1	79.2	69.9	67.2	61.2	57.0	53.1	49.5	47.1	46.2	45.6
115°	98.1	93.6	82.5	75.6	67.5	61.2	55.8	51.9	48.3	47.1	48.3
117.5°	101.1	89.1	72.0	66.3	61.5	57.6	54.6	51.6	48.9	49.8	48.9
120°	100.2	85.5	72.6	80.7	72.6	63.6	56.4	56.4	55.5	51.0	51.9
122.5°	154.2	144.0	128.4	123.6	100.8	92.1	78.6	67.2	56.1	49.8	46.8
125°	211.2	201.3	177.3	159.0	136.2	112.2	86.1	66.3	51.9	45.9	46.8
127.5°	212.4	203.4	180.6	149.7	119.7	96.0	71.7	58.8	50.7	46.8	46.2
130°	165.6	156.9	137.4	113.7	94.8	79.2	64.5	53.1	45.9	42.9	42.0
132.5°	143.4	135.6	117.6	96.0	82.2	69.9	57.6	46.2	41.4	39.3	39.6
135°	120.6	111.3	94.2	82.5	73.8	62.7	51.6	42.3	39.9	39.3	39.0
137.5°	102.3	95.7	83.7	74.7	66.3	56.4	45.3	39.6	38.7	39.3	38.7
140°	87.0	81.6	75.0	67.2	57.0	47.7	40.5	37.8	39.3	39.6	39.3
142.5°	75.0	69.6	62.7	52.2	47.4	43.2	41.4	39.3	39.3	39.0	38.7
145°	62.7	55.5	52.2	53.7	50.7	46.5	43.2	39.0	37.5	37.5	37.8
147.5°	72.0	64.5	60.3	57.0	51.3	45.3	40.2	36.3	35.7	36.9	36.6
150°	62.1	55.2	52.2	47.7	44.1	39.6	36.3	34.8	35.1	36.6	36.6
152.5°	49.5	44.7	42.9	41.7	39.9	37.2	35.4	34.8	35.4	36.0	36.0
155°	46.5	43.8	41.7	40.8	38.7	36.6	35.1	34.8	35.4	36.0	36.6
157.5°	43.5	42.6	39.9	39.0	37.2	36.3	35.4	35.4	35.7	36.3	36.9
160°	41.4	41.1	38.7	38.4	37.2	36.6	36.6	36.9	37.2	37.2	37.2
162.5°	40.2	40.2	39.3	38.7	38.4	38.1	39.0	39.3	39.0	39.0	39.0
165°	40.5	40.8	39.9	39.3	39.0	39.6	41.1	41.1	40.5	40.2	39.9
167.5°	40.8	41.1	40.5	40.2	40.2	40.8	41.4	41.1	40.8	40.5	40.2
170°	40.5	40.8	40.8	41.1	41.1	41.1	41.7	41.7	41.1	40.8	40.8
172.5°	41.1	41.4	41.7	42.0	42.3	42.0	42.3	42.3	42.3	42.3	42.6
175°	42.9	42.9	43.2	43.2	42.9	43.2	43.2	43.2	43.5	44.1	44.1
177.5°	43.8	43.8	43.5	43.5	43.2	43.5	43.5	43.5	43.5	43.8	43.5
180°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4

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.

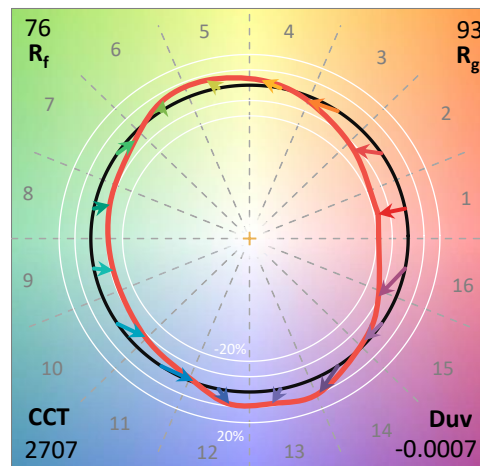
Test Information

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

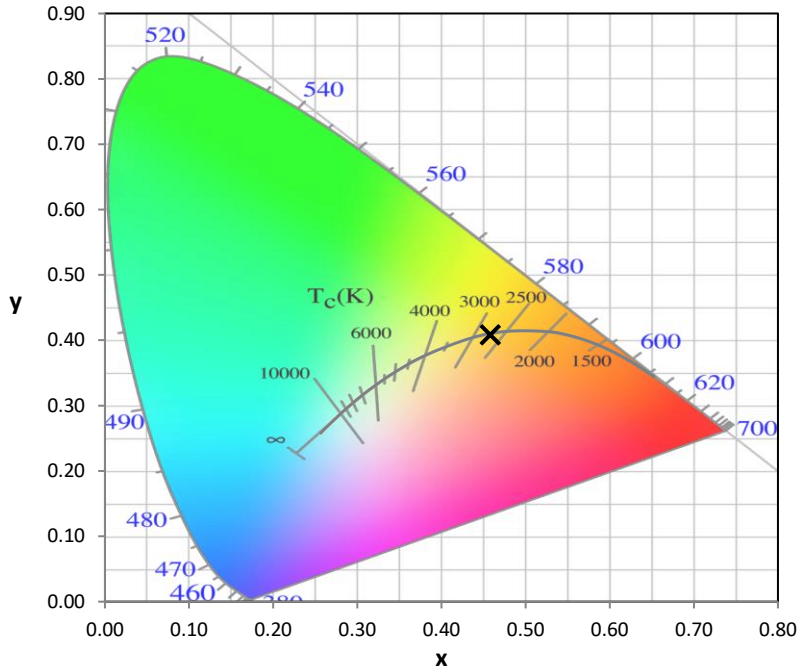
Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

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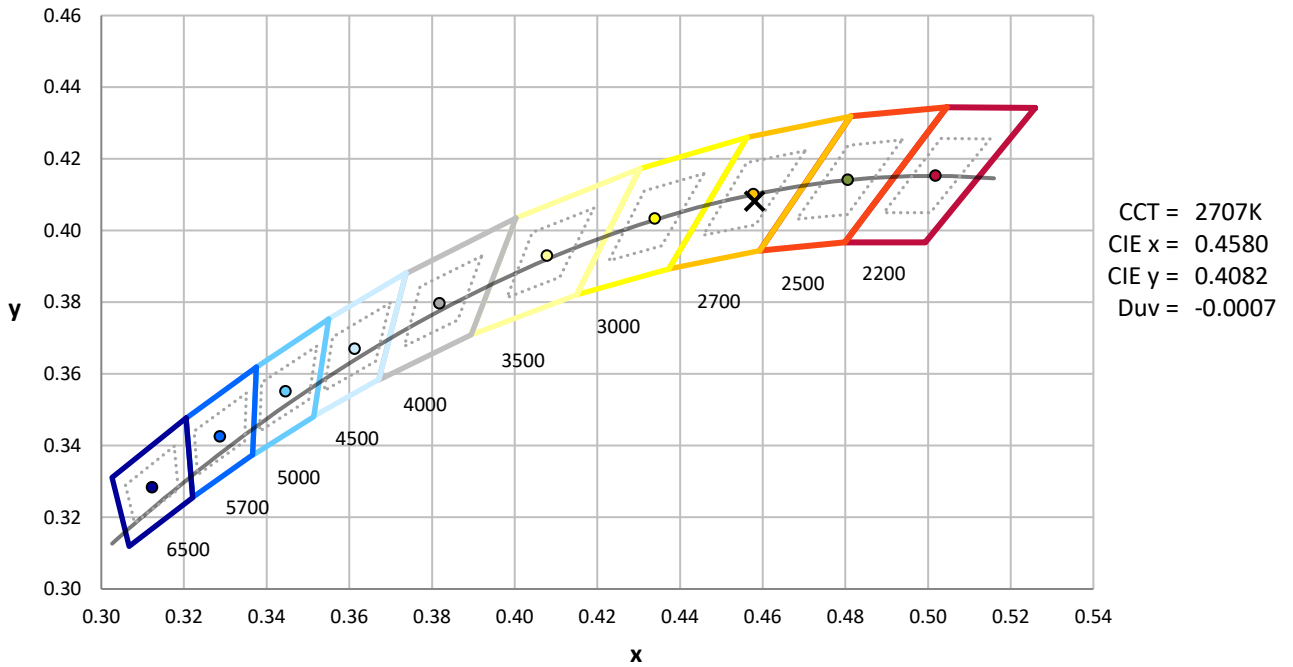
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



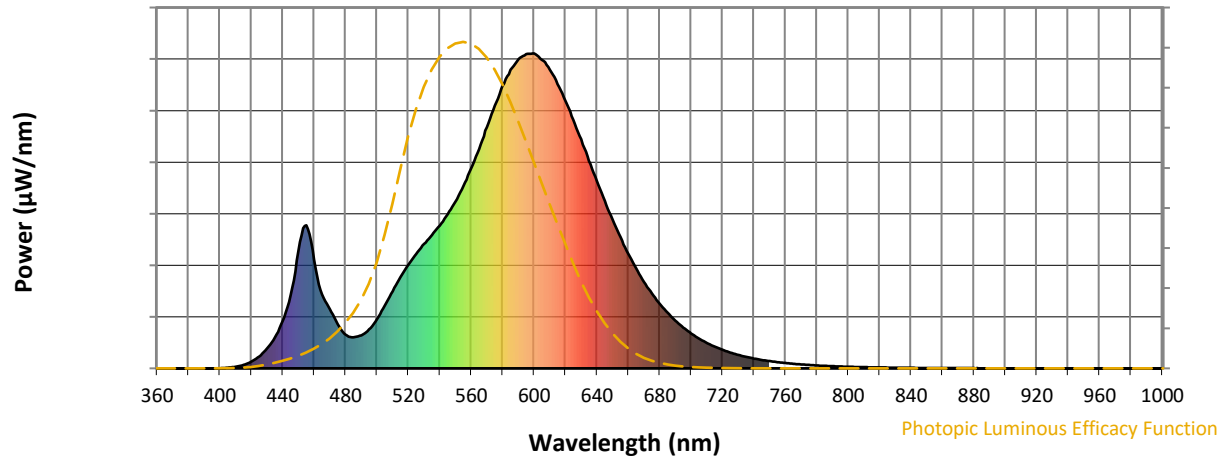
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

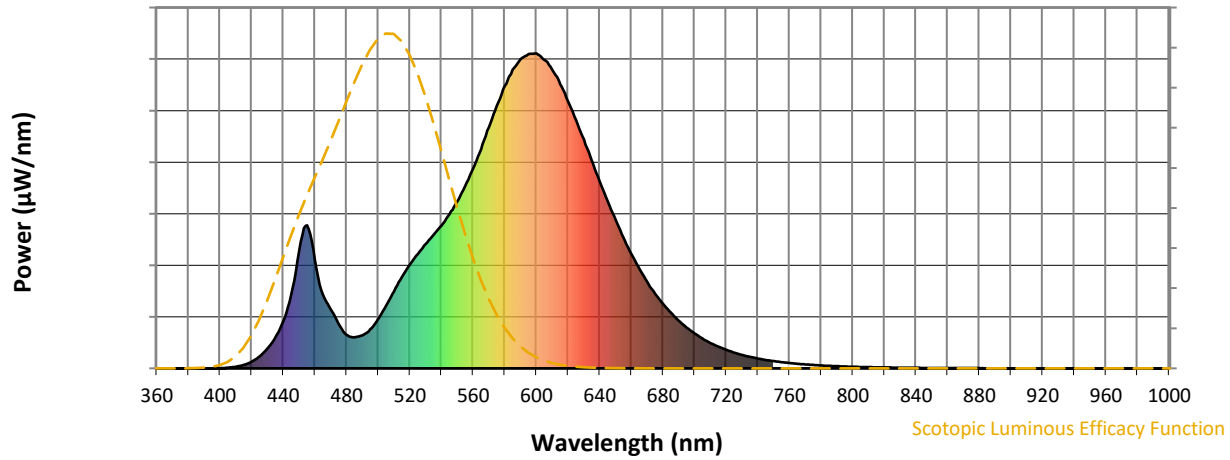


Photopic Lumens: NR

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



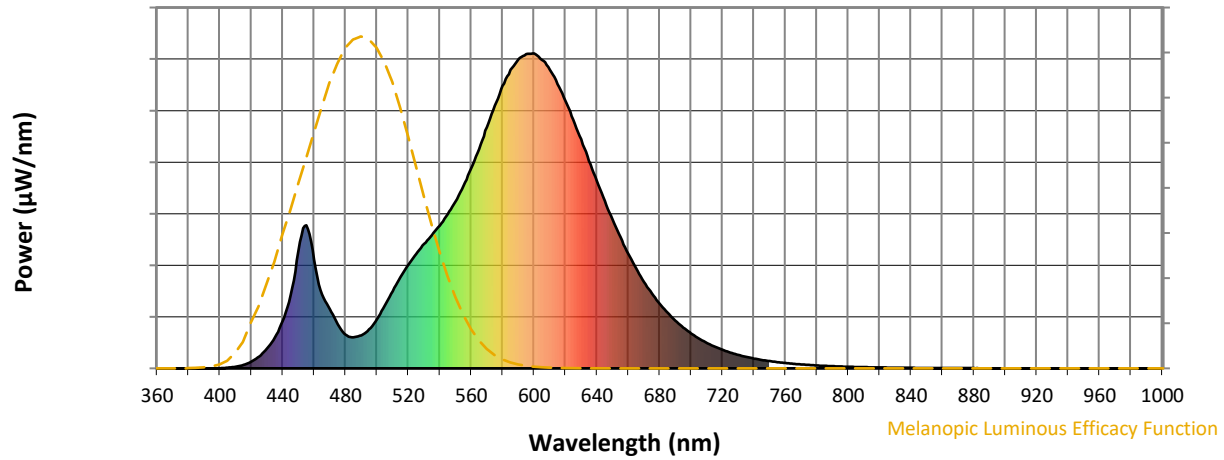
Scotopic Lumens: NR

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

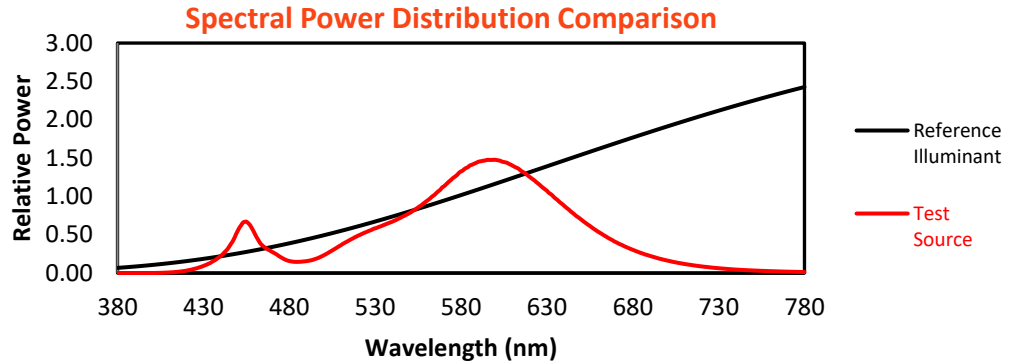
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	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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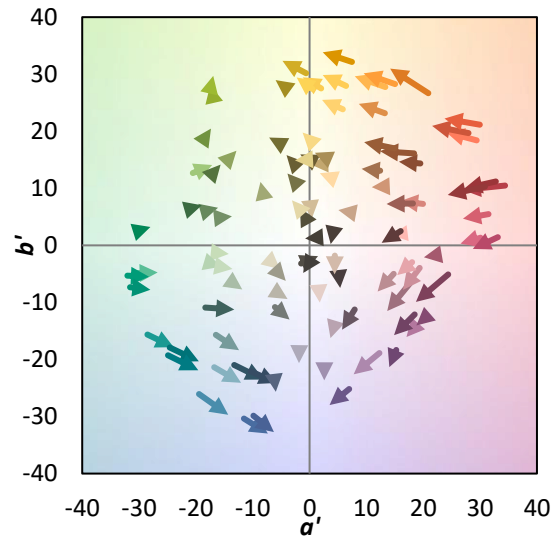
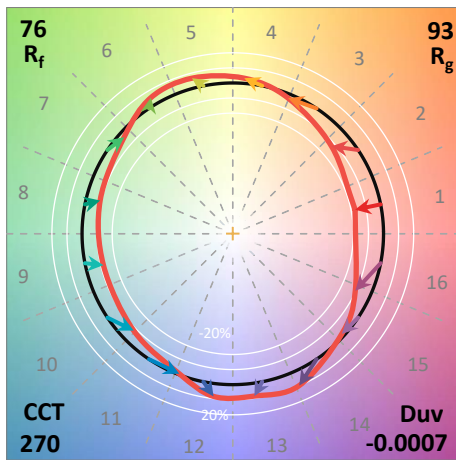
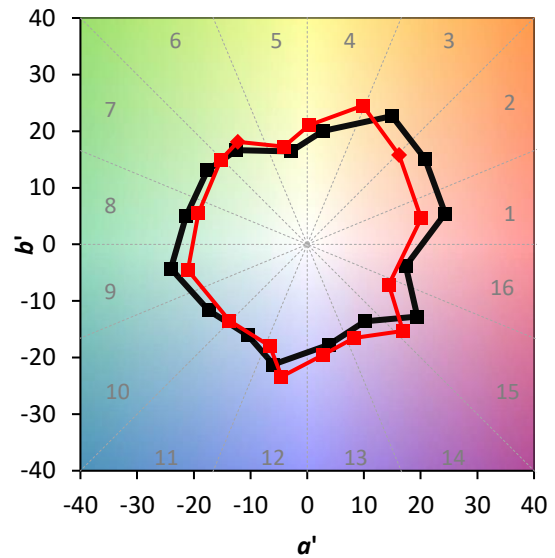
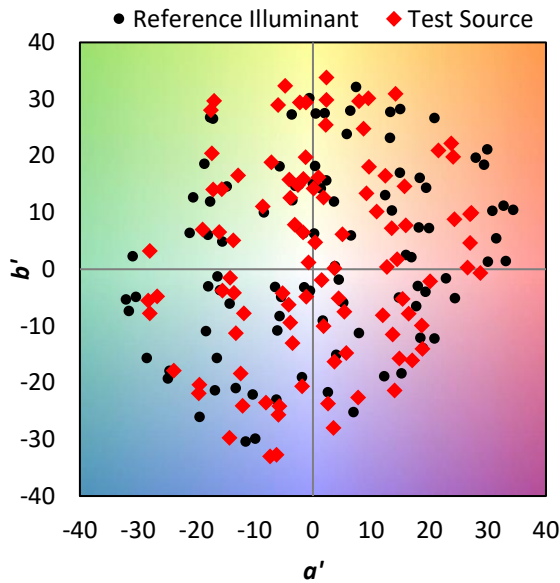
TM-30-18

Summary

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



Color Vector Graphics

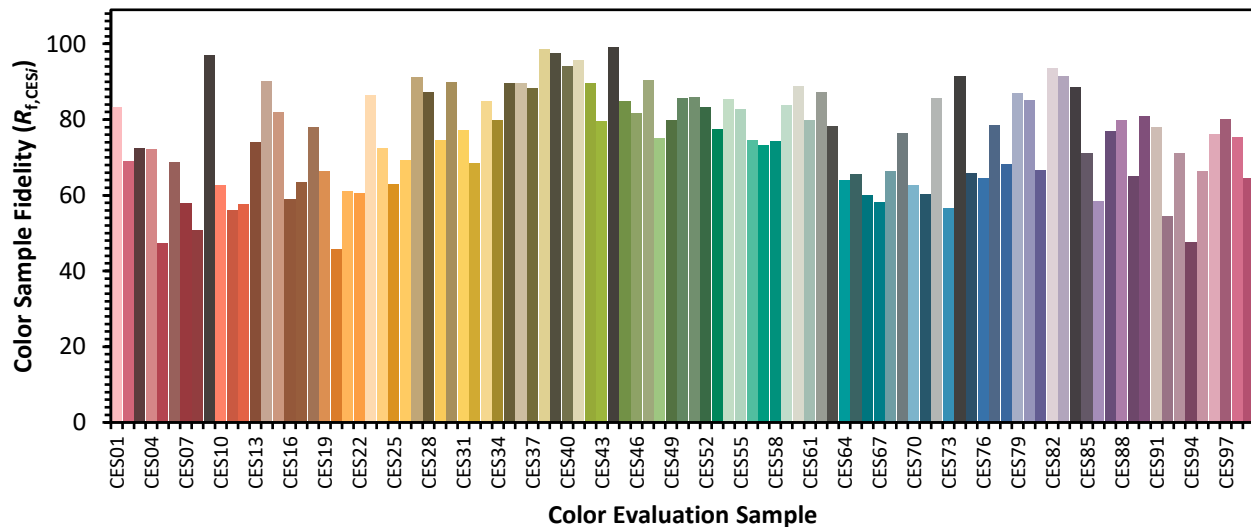


REPORT NUMBER: SP1-2406-133-3

TM-30-18

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

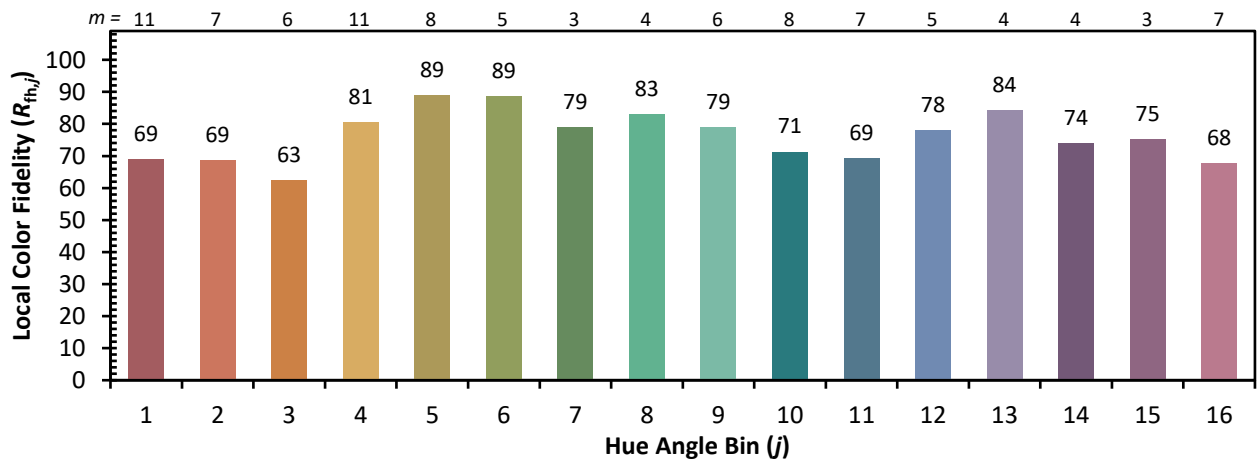
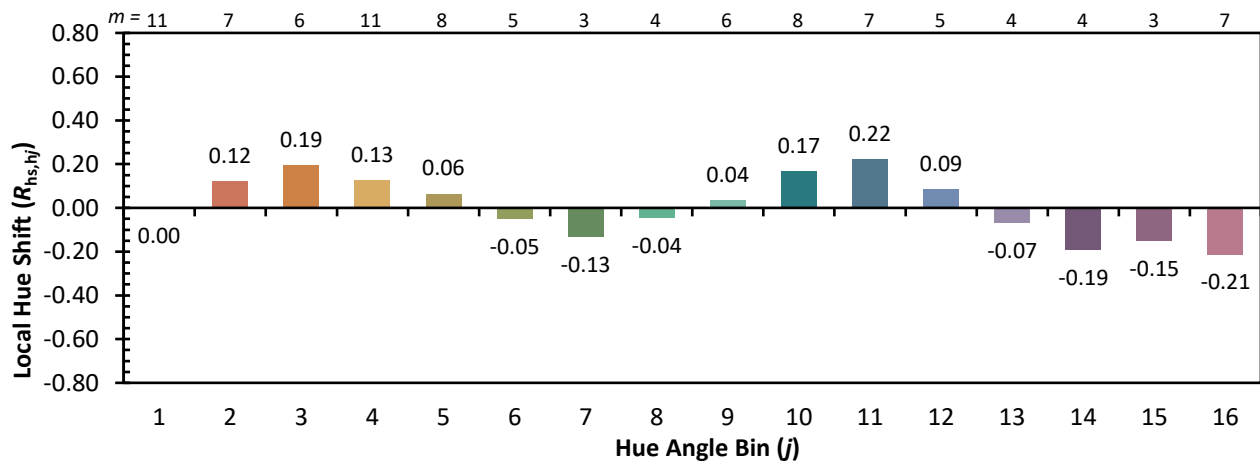
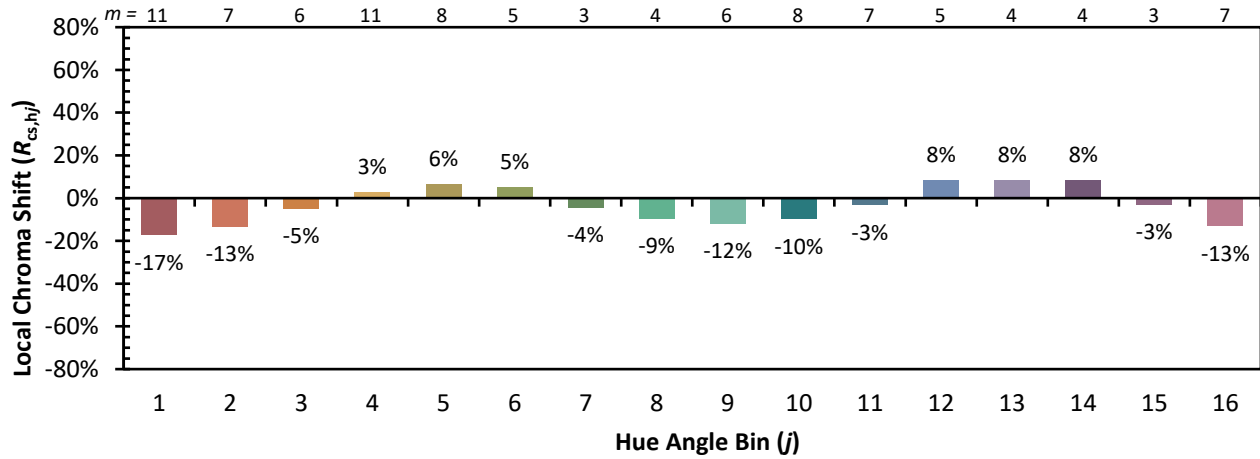
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 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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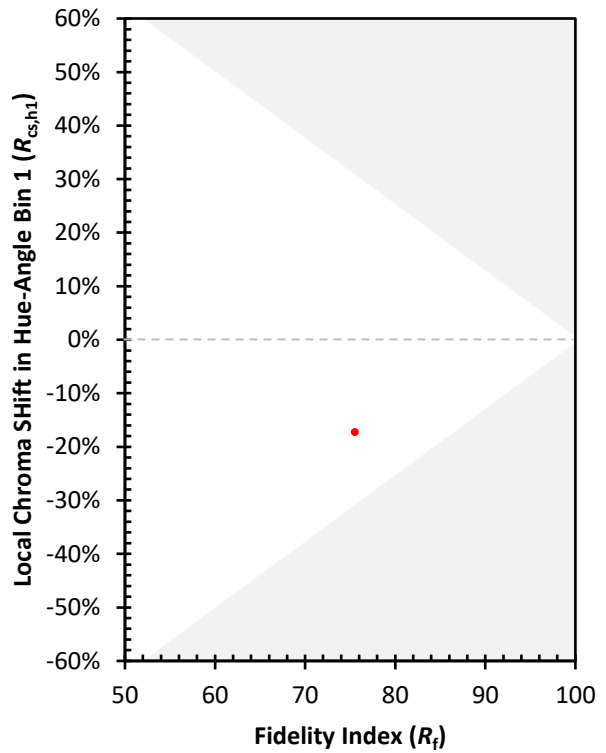
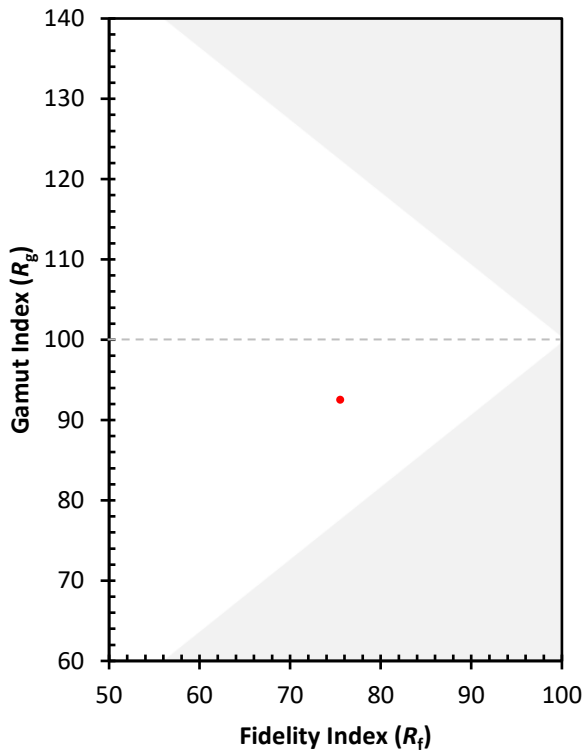
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)