

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: P856108

Luminaire Tested: **FFX-CLB-30-722-U-FR-T3**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856108
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-722-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

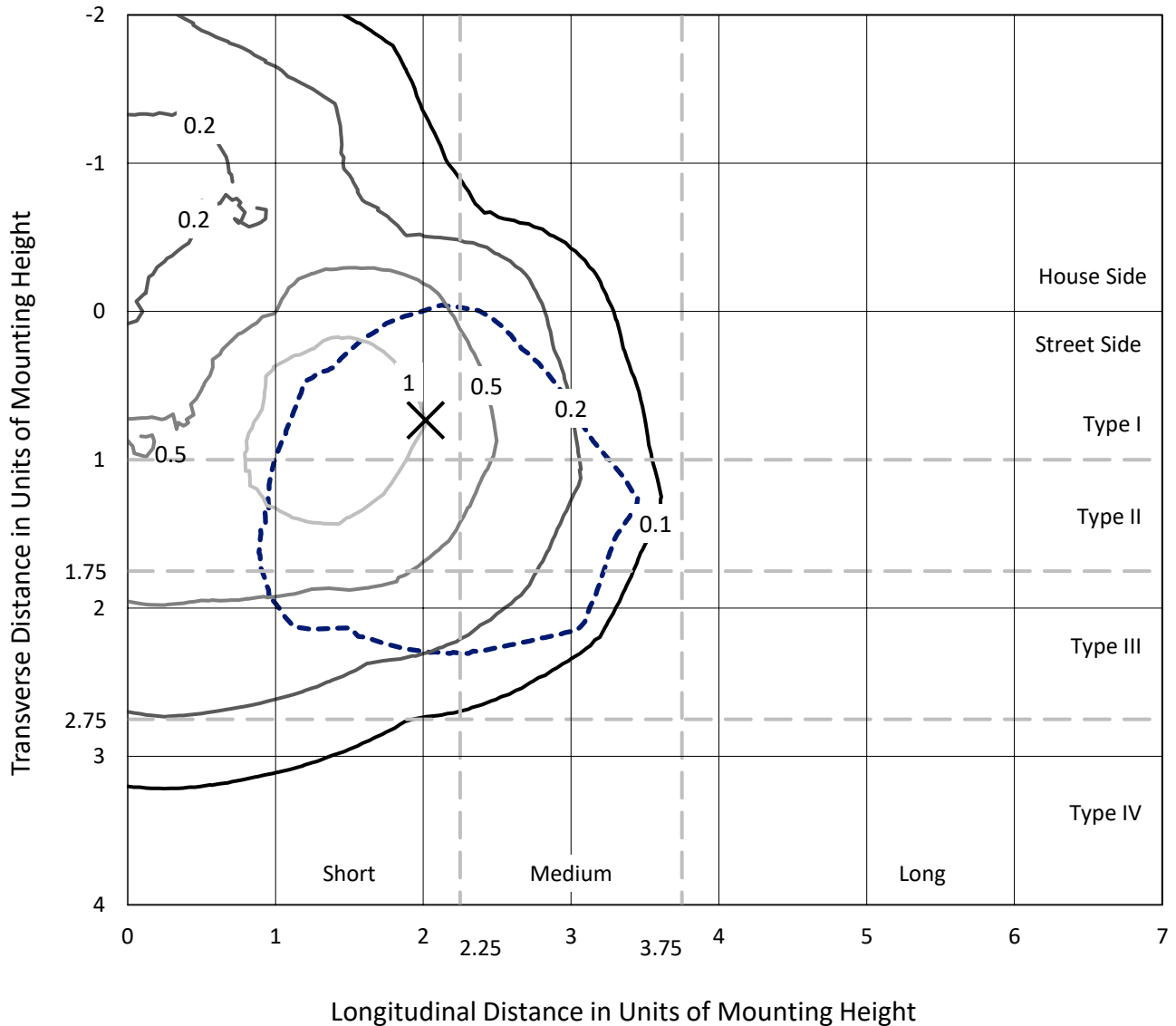
Lumens per Lamp: N/A
Luminaire Lumens: 4133.1 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B1 - U4 - G2

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

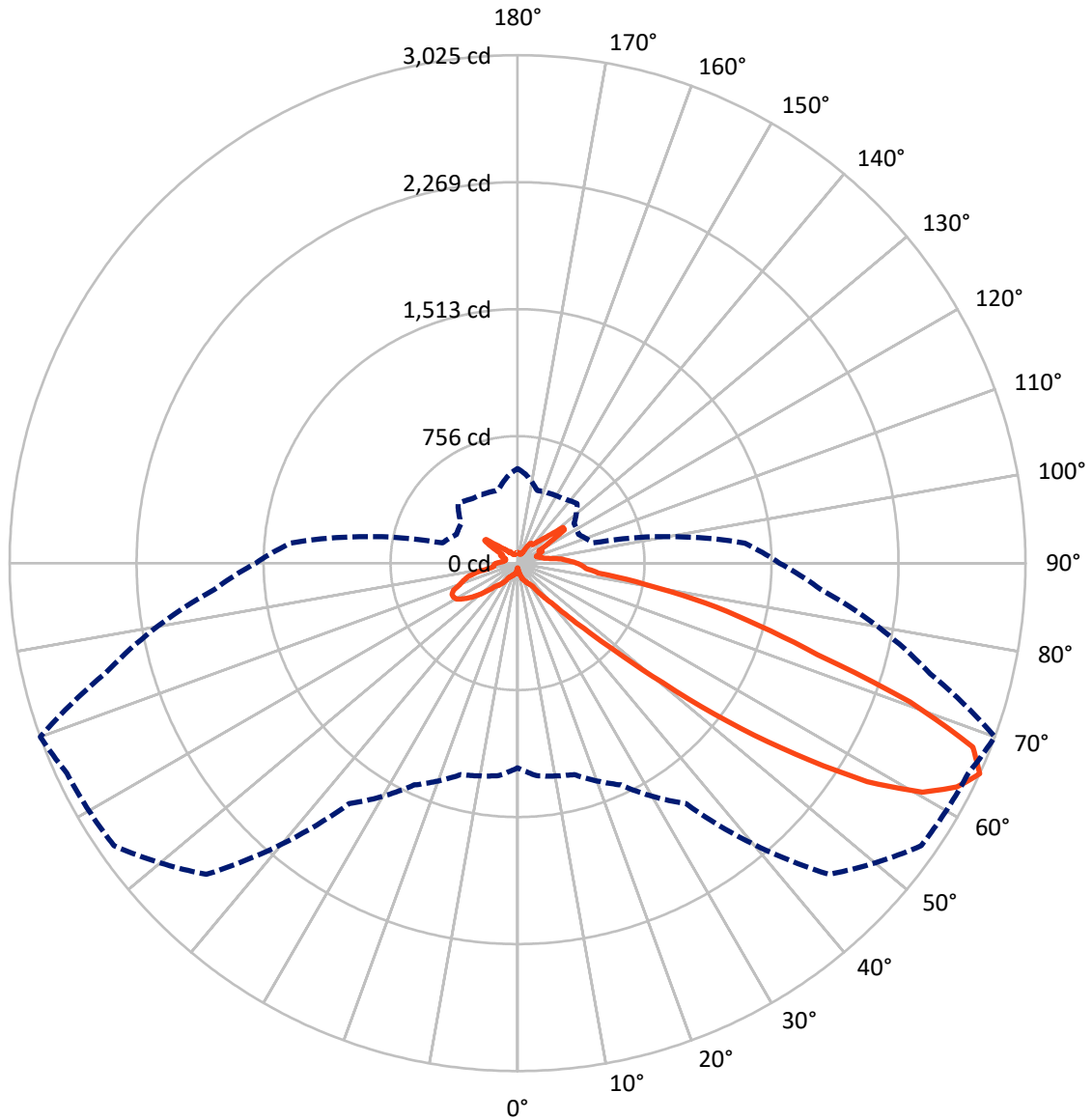
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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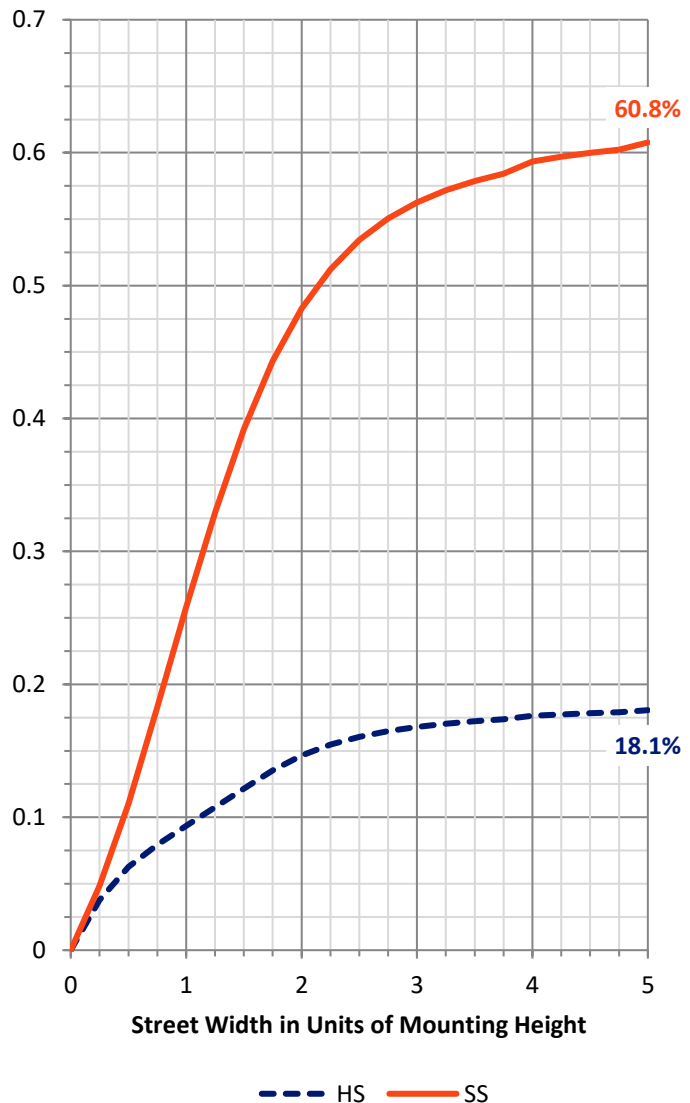
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.6	277.7	1056.3
	% Fixture	18.8	6.7	25.6
Street Side	Lumens	2596.2	480.6	3076.8
	% Fixture	62.8	11.6	74.4
Total	Lumens	3374.7	758.4	4133.1
	% Fixture	81.7	18.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	21.7	0.5
20°-30°	46.0	1.1
30°-40°	93.6	2.3
40°-50°	238.0	5.8
50°-60°	764.9	18.5
60°-70°	1248.3	30.2
70°-80°	710.7	17.2
80°-90°	247.3	6.0
90°-100°	153.9	3.7
100°-110°	98.0	2.4
110°-120°	107.8	2.6
120°-130°	182.3	4.4
130°-140°	107.5	2.6
140°-150°	57.9	1.4
150°-160°	29.2	0.7
160°-170°	16.0	0.4
170°-180°	5.8	0.1
0°-90°	3374.7	81.7
0°-180°	4133.1	100.0

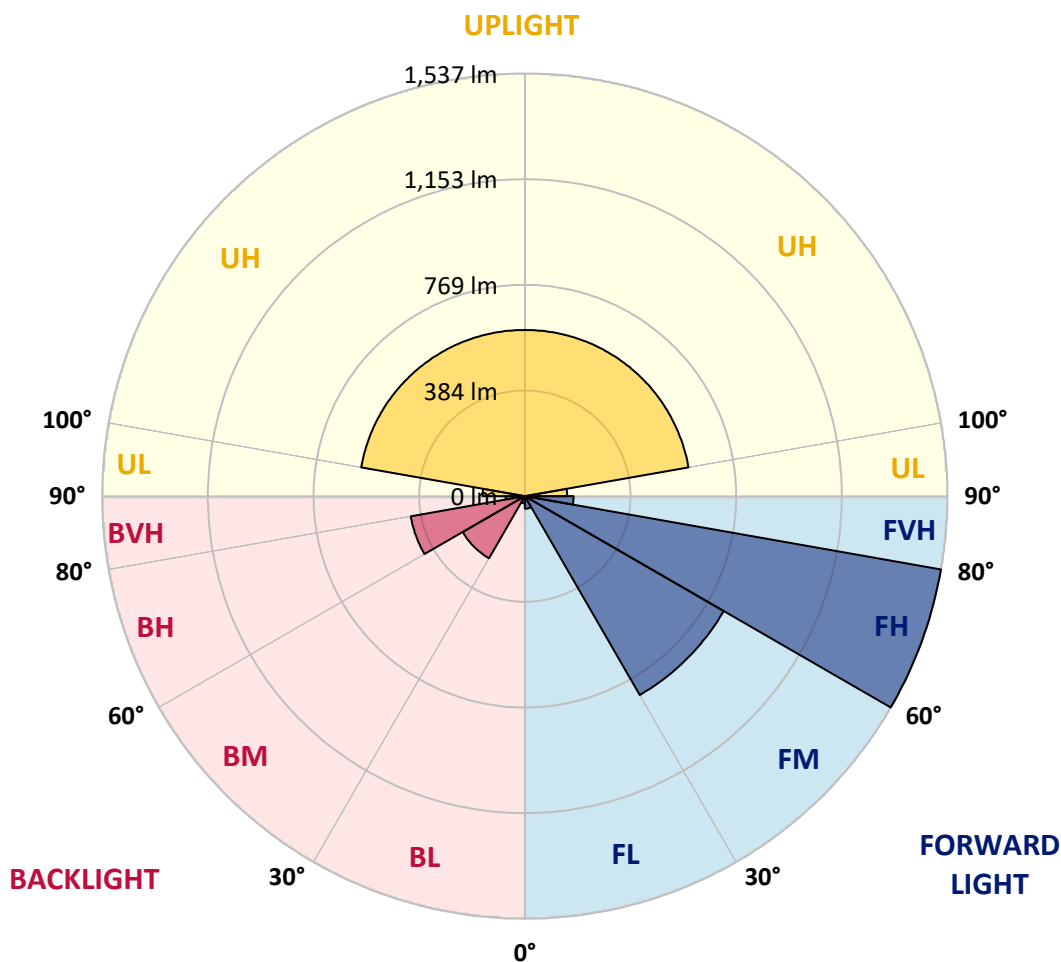


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	45.9	1.1			
FM (30°-60°)	835.6	20.2			
FH (60°-80°)	1537.5	37.2			G1/1800
FVH (80°-90°)	177.3	4.3			G2/225
BL (0°-30°)	26.2	0.6	B0/110		
BM (30°-60°)	260.9	6.3	B1/1000		
BH (60°-80°)	421.5	10.2	B1/500		G1/500
BVH (80°-90°)	70.0	1.7			G1/100
UL (90°-100°)	153.9	3.7		U3/500	
UH (100°-180°)	604.5	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°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
2.5°	32.8	32.8	33.6	33.6	33.6	32.8	32.4	31.5	31.5	31.5	31.1
5°	42.6	42.2	42.6	43.9	44.3	43.0	42.2	40.9	40.9	40.5	40.5
7.5°	57.5	57.1	56.2	54.9	55.4	56.6	58.4	54.9	54.1	52.0	51.1
10°	72.0	71.1	72.0	69.9	67.7	64.7	66.4	65.6	63.9	61.8	60.1
12.5°	87.7	88.2	89.9	88.2	84.8	80.1	79.2	77.1	75.4	75.0	72.4
15°	103.9	104.3	106.1	105.6	102.2	95.8	93.3	91.1	90.3	87.7	82.2
17.5°	112.4	112.9	113.3	113.7	111.6	106.5	102.6	98.8	97.5	96.7	89.9
20°	116.7	115.8	116.7	118.4	120.1	115.8	112.0	109.9	108.6	105.6	96.7
22.5°	123.5	122.7	122.2	123.5	128.6	125.6	121.8	119.7	118.4	114.6	100.9
25°	130.8	129.9	131.2	130.3	136.7	135.4	131.6	129.5	127.8	123.1	107.3
27.5°	138.8	138.0	139.3	138.4	143.5	144.4	141.8	140.1	137.6	130.8	112.0
30°	145.7	144.8	146.1	145.7	150.8	153.8	152.5	152.1	148.2	140.1	120.1
32.5°	151.2	150.8	153.8	155.0	156.3	163.1	162.3	166.1	161.8	152.1	132.0
35°	164.0	165.3	173.3	181.9	183.1	196.8	198.5	212.5	208.3	195.5	171.2
37.5°	253.4	248.7	240.6	232.6	229.6	256.0	259.8	273.9	263.2	239.4	200.2
40°	270.0	262.4	253.0	246.6	247.5	294.7	286.6	339.9	309.6	273.9	244.5
42.5°	256.4	253.8	286.6	302.0	290.9	359.9	346.3	447.6	413.1	325.4	295.2
45°	321.6	316.5	328.0	343.3	346.7	473.6	464.2	570.3	556.2	406.8	378.6
47.5°	368.0	363.3	378.6	430.6	475.3	612.5	663.6	816.5	767.1	578.0	512.8
50°	507.3	506.4	553.7	615.4	693.8	891.0	1026.9	1198.5	1118.9	818.2	703.2
52.5°	644.8	646.5	704.5	813.9	895.3	1243.7	1436.6	1556.7	1567.4	1066.9	911.5
55°	748.8	759.4	829.3	1012.8	1135.9	1557.6	1808.0	1901.3	2007.8	1441.7	1128.3
57.5°	951.5	967.7	1034.1	1213.9	1385.9	1948.6	2286.7	2297.0	2455.8	1857.4	1360.8
60°	1128.7	1166.6	1190.0	1353.1	1587.8	2322.1	2642.4	2621.9	2771.0	2202.0	1596.8
62.5°	1183.6	1227.1	1249.2	1423.0	1747.5	2531.6	2808.5	2834.0	2936.7	2443.9	1741.1
65°	1219.4	1270.5	1303.7	1457.5	1749.2	2621.1	2934.6	2961.8	3025.3	2545.3	1813.1
67.5°	1201.1	1266.2	1308.8	1445.6	1657.2	2552.1	2909.4	2857.0	2924.3	2460.5	1732.6
70°	1048.6	1116.8	1159.8	1261.6	1385.5	2145.8	2508.2	2420.5	2479.7	2053.8	1424.7
72.5°	854.4	888.0	914.4	970.2	1044.3	1582.7	1906.0	1833.1	1868.5	1545.2	1067.8
75°	701.9	712.1	744.9	776.9	789.2	1157.6	1509.9	1443.4	1484.7	1176.4	849.7
77.5°	509.8	515.8	562.6	567.7	564.8	794.3	1190.0	1131.7	1144.9	874.4	634.2
80°	296.0	307.5	368.8	365.9	360.8	489.4	837.8	814.4	773.5	593.7	439.1
82.5°	208.7	220.2	248.3	254.7	251.3	351.4	543.9	528.6	484.3	413.1	303.7
85°	219.8	221.1	222.3	225.3	219.8	313.5	416.5	408.9	409.3	341.6	250.4
87.5°	216.8	221.9	224.0	225.3	219.8	297.7	387.2	377.4	382.0	324.5	243.2
90°	190.4	199.8	200.6	202.7	199.8	265.8	347.5	338.2	344.1	292.6	221.5
92.5°	155.5	160.6	166.5	174.6	171.2	227.4	295.6	288.8	296.0	253.4	194.6
95°	147.4	152.9	156.7	162.3	157.2	207.4	267.0	253.4	259.4	221.9	167.8
97.5°	121.8	126.5	129.9	132.0	128.2	163.6	204.9	195.5	195.1	171.6	134.2
100°	103.9	106.9	109.9	112.0	108.6	135.4	162.3	158.9	159.7	141.8	115.4
102.5°	98.8	100.5	105.2	105.6	101.8	123.5	146.1	144.8	146.5	131.2	108.2
105°	96.7	98.0	101.8	100.5	97.1	115.4	134.6	135.4	135.4	122.2	101.4
107.5°	90.3	92.4	96.7	94.6	92.8	106.5	123.9	121.0	121.8	113.7	96.3
110°	89.4	91.1	95.4	93.7	92.4	103.9	119.3	118.4	119.7	112.4	98.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
112.5°	111.2	109.5	112.9	109.5	111.6	121.4	137.6	135.9	139.7	137.1	123.5
115°	137.1	138.0	141.4	134.6	136.7	146.5	155.5	158.4	161.8	158.0	144.0
117.5°	126.9	134.2	129.9	129.1	127.3	135.0	133.7	141.4	144.8	141.8	136.3
120°	135.9	144.8	132.5	126.1	123.5	142.7	152.1	151.6	149.1	143.1	131.6
122.5°	203.2	204.4	205.3	224.5	217.6	236.4	241.9	234.7	234.7	242.3	218.9
125°	316.9	318.2	317.3	325.8	321.1	339.0	346.3	345.8	341.6	337.8	314.8
127.5°	320.3	320.3	317.3	312.6	316.9	334.3	334.8	351.0	345.4	335.2	313.9
130°	223.6	225.3	236.0	239.4	245.3	249.2	244.9	259.0	261.5	259.8	245.3
132.5°	185.3	188.3	199.8	204.0	207.8	208.3	206.6	217.6	220.2	220.2	213.8
135°	160.1	163.6	164.8	162.7	168.2	172.5	175.9	184.8	184.0	182.3	176.8
137.5°	139.7	141.0	137.1	132.5	135.4	147.8	154.6	164.0	163.6	160.6	151.2
140°	118.0	118.4	116.3	114.1	117.1	127.8	134.2	144.4	143.1	141.0	129.9
142.5°	89.4	90.7	96.3	100.5	107.8	129.9	126.5	135.4	141.8	146.9	121.4
145°	94.1	92.4	91.6	96.3	105.6	137.6	127.8	139.3	142.3	145.7	116.3
147.5°	108.6	109.5	108.2	105.2	118.0	128.2	122.7	132.9	134.6	133.7	121.8
150°	85.2	86.5	86.9	85.6	101.4	100.9	95.4	103.1	103.9	103.9	95.8
152.5°	69.4	69.9	69.0	68.1	78.4	76.7	74.1	76.7	76.2	75.8	74.1
155°	66.0	66.0	65.2	65.6	72.4	70.7	69.0	70.7	69.9	68.6	66.9
157.5°	60.9	61.3	61.3	62.6	66.9	63.9	62.2	63.0	62.2	61.3	61.3
160°	57.5	57.5	57.9	59.6	62.2	59.2	57.9	58.4	57.9	57.1	57.5
162.5°	56.2	56.2	56.6	57.5	57.9	56.2	54.9	54.9	54.9	54.9	56.2
165°	55.4	55.4	55.4	55.8	55.8	54.5	54.1	54.5	54.9	55.4	57.1
167.5°	57.1	57.1	57.1	57.1	56.6	55.8	55.4	55.8	56.2	56.6	57.9
170°	59.6	59.2	59.2	58.8	58.4	57.5	57.1	56.6	56.6	57.1	57.5
172.5°	61.3	61.3	60.9	60.9	60.5	59.6	58.8	58.4	58.4	58.4	58.4
175°	63.5	63.5	63.5	63.5	63.0	62.2	61.8	60.9	60.9	60.9	60.9
177.5°	66.0	66.0	66.0	66.0	65.2	64.3	63.5	62.6	62.6	62.6	62.2
180°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
2.5°	30.7	30.2	29.0	28.5	28.1	27.3	26.4	26.0	25.6	25.6	26.0
5°	40.9	40.5	40.5	39.2	37.9	35.8	34.9	34.9	35.4	35.8	36.6
7.5°	51.5	52.4	53.2	51.1	47.3	42.2	39.2	40.0	42.2	43.9	43.9
10°	59.6	59.6	62.6	60.1	53.7	47.3	43.0	42.2	42.6	43.0	43.4
12.5°	71.1	71.1	69.4	62.6	56.2	49.8	46.4	45.6	45.6	43.9	43.4
15°	79.6	77.1	71.1	64.7	59.2	52.8	49.0	47.7	46.4	45.1	44.7
17.5°	84.8	80.1	72.0	66.0	60.5	55.4	51.5	49.0	47.7	48.1	48.1
20°	90.7	85.6	78.4	72.0	65.2	58.4	53.7	49.8	48.6	49.0	48.6
22.5°	95.4	90.3	83.1	75.8	68.6	61.3	55.8	51.1	49.4	49.8	49.8
25°	100.9	96.7	89.0	80.5	71.6	64.7	59.2	53.7	51.1	50.7	50.7
27.5°	106.5	103.5	95.4	85.2	75.8	67.7	62.2	55.8	52.8	51.5	51.5
30°	113.7	110.3	102.2	89.9	79.6	72.0	66.0	59.2	54.9	52.8	52.4
32.5°	125.2	121.4	111.6	98.4	83.9	76.2	69.9	62.2	56.6	54.1	53.7
35°	162.7	156.7	141.4	126.1	102.6	85.2	74.5	64.7	58.4	54.9	54.5
37.5°	186.1	171.6	151.2	141.0	115.4	104.3	89.9	74.1	60.9	56.6	55.8
40°	224.0	204.0	178.5	158.4	112.4	114.1	105.2	92.4	72.4	59.6	58.4
42.5°	256.0	230.8	192.1	166.1	112.9	119.3	112.4	101.8	86.9	70.7	68.1
45°	315.6	283.2	223.2	178.5	115.8	126.9	118.4	107.3	94.1	83.1	81.8
47.5°	426.3	382.5	279.0	198.9	135.4	147.4	132.0	117.6	105.6	92.8	90.7
50°	583.5	531.1	343.3	215.1	169.1	194.2	166.5	142.3	128.6	119.3	118.0
52.5°	764.5	709.6	390.6	244.9	210.0	252.1	220.2	192.1	174.2	174.2	176.8
55°	974.9	920.0	428.5	286.2	260.2	316.0	281.5	258.5	250.0	286.2	296.0
57.5°	1183.6	1113.8	454.0	328.4	319.0	391.0	349.7	330.1	345.8	453.2	486.4
60°	1374.0	1258.6	474.0	368.4	369.3	450.6	420.0	418.7	443.0	580.1	622.3
62.5°	1483.9	1326.7	472.8	391.4	398.7	487.7	462.1	468.9	482.6	601.4	633.3
65°	1559.3	1359.1	463.0	401.6	411.0	500.9	468.9	457.4	448.5	532.4	563.1
67.5°	1507.3	1283.3	440.8	386.7	403.3	481.7	439.5	406.8	389.3	431.9	452.7
70°	1262.4	1070.3	390.1	348.0	363.3	405.9	365.4	333.1	314.8	337.8	347.5
72.5°	956.2	814.4	351.8	325.4	318.6	335.6	297.3	261.1	250.0	264.9	267.0
75°	761.5	637.2	323.7	294.3	267.5	284.1	237.2	193.4	187.0	187.0	183.6
77.5°	571.2	472.3	276.0	229.1	197.2	224.5	176.8	134.6	126.1	124.4	119.7
80°	382.9	321.6	185.7	152.1	141.8	166.5	125.6	98.8	99.2	98.8	93.3
82.5°	267.5	248.3	150.8	132.5	121.4	131.2	113.7	95.0	94.1	95.0	89.0
85°	237.2	227.4	146.1	136.7	125.2	126.5	109.0	89.9	90.3	92.0	86.9
87.5°	227.9	216.8	146.5	132.0	122.2	117.1	98.8	83.1	85.6	87.3	83.1
90°	205.3	194.2	134.6	119.3	109.0	101.8	87.3	78.8	82.2	83.9	80.1
92.5°	178.0	166.5	112.0	105.2	102.6	102.6	91.6	83.9	86.0	86.9	83.5
95°	153.3	142.3	99.7	92.4	90.3	90.7	81.8	75.4	76.7	76.2	73.7
97.5°	123.9	117.1	86.9	82.2	80.1	79.2	73.3	68.6	71.1	72.8	70.7
100°	109.5	106.1	83.9	80.5	77.5	77.1	72.0	69.0	71.1	73.7	72.0
102.5°	102.2	99.7	80.1	75.4	73.3	72.4	69.0	65.6	67.7	70.3	69.0
105°	96.3	92.4	76.7	72.4	69.4	69.0	65.6	61.3	62.6	66.0	65.2
107.5°	91.1	88.6	76.2	71.6	67.7	67.7	63.9	60.5	60.9	62.2	62.2
110°	95.4	92.4	79.2	75.8	70.7	69.0	68.1	65.6	63.5	62.6	62.6



REPORT NUMBER: P856108
 CATALOG NUMBER: FFX-CLB-30-722-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	118.0	112.4	99.2	95.4	86.9	80.9	75.4	70.3	66.9	65.6	64.7
115°	139.3	132.9	117.1	107.3	95.8	86.9	79.2	73.7	68.6	66.9	68.6
117.5°	143.5	126.5	102.2	94.1	87.3	81.8	77.5	73.3	69.4	70.7	69.4
120°	142.3	121.4	103.1	114.6	103.1	90.3	80.1	80.1	78.8	72.4	73.7
122.5°	218.9	204.4	182.3	175.5	143.1	130.8	111.6	95.4	79.6	70.7	66.4
125°	299.8	285.8	251.7	225.7	193.4	159.3	122.2	94.1	73.7	65.2	66.4
127.5°	301.5	288.8	256.4	212.5	169.9	136.3	101.8	83.5	72.0	66.4	65.6
130°	235.1	222.8	195.1	161.4	134.6	112.4	91.6	75.4	65.2	60.9	59.6
132.5°	203.6	192.5	167.0	136.3	116.7	99.2	81.8	65.6	58.8	55.8	56.2
135°	171.2	158.0	133.7	117.1	104.8	89.0	73.3	60.1	56.6	55.8	55.4
137.5°	145.2	135.9	118.8	106.1	94.1	80.1	64.3	56.2	54.9	55.8	54.9
140°	123.5	115.8	106.5	95.4	80.9	67.7	57.5	53.7	55.8	56.2	55.8
142.5°	106.5	98.8	89.0	74.1	67.3	61.3	58.8	55.8	55.8	55.4	54.9
145°	89.0	78.8	74.1	76.2	72.0	66.0	61.3	55.4	53.2	53.2	53.7
147.5°	102.2	91.6	85.6	80.9	72.8	64.3	57.1	51.5	50.7	52.4	52.0
150°	88.2	78.4	74.1	67.7	62.6	56.2	51.5	49.4	49.8	52.0	52.0
152.5°	70.3	63.5	60.9	59.2	56.6	52.8	50.3	49.4	50.3	51.1	51.1
155°	66.0	62.2	59.2	57.9	54.9	52.0	49.8	49.4	50.3	51.1	52.0
157.5°	61.8	60.5	56.6	55.4	52.8	51.5	50.3	50.3	50.7	51.5	52.4
160°	58.8	58.4	54.9	54.5	52.8	52.0	52.0	52.4	52.8	52.8	52.8
162.5°	57.1	57.1	55.8	54.9	54.5	54.1	55.4	55.8	55.4	55.4	55.4
165°	57.5	57.9	56.6	55.8	55.4	56.2	58.4	58.4	57.5	57.1	56.6
167.5°	57.9	58.4	57.5	57.1	57.1	57.9	58.8	58.4	57.9	57.5	57.1
170°	57.5	57.9	57.9	58.4	58.4	58.4	59.2	59.2	58.4	57.9	57.9
172.5°	58.4	58.8	59.2	59.6	60.1	59.6	60.1	60.1	60.1	60.1	60.5
175°	60.9	60.9	61.3	61.3	60.9	61.3	61.3	61.3	61.8	62.6	62.6
177.5°	62.2	62.2	61.8	61.8	61.3	61.8	61.8	61.8	61.8	62.2	61.8
180°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0

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: SP1-2406-133-2

Test Date: 07/11/2024

Luminaire Tested: FFX-CLB-100-722-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-722-U-FR-T5.

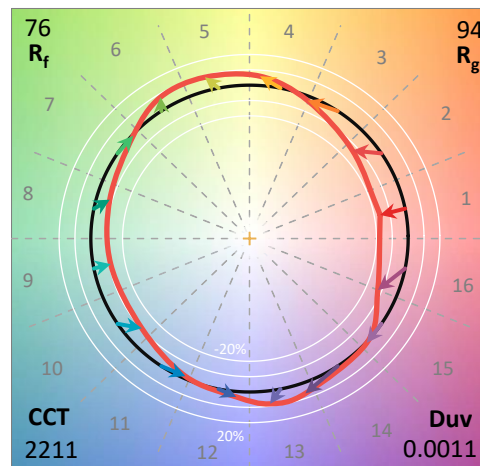
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-2
 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-100-722-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2211
 CIE u': 0.2892
 CIE v': 0.5376
 Duv: 0.0011
 CIE x: 0.5069
 CIE y: 0.4188
 CIE z: 0.0743
 Peak Wavelength (nm): 606
 Dominant Wavelength (nm): 586
 Purity: 77.8805
 Rf: 76.1
 Rg: 94.3

CRI (Ra):	71.4		
R1:	68.2	R9:	-29.2
R2:	85.0	R10:	67.8
R3:	94.0	R11:	60.7
R4:	65.1	R12:	59.0
R5:	66.6	R13:	71.3
R6:	81.8	R14:	97.6
R7:	73.4	R15:	58.9
R8:	37.3		



Test Conditions

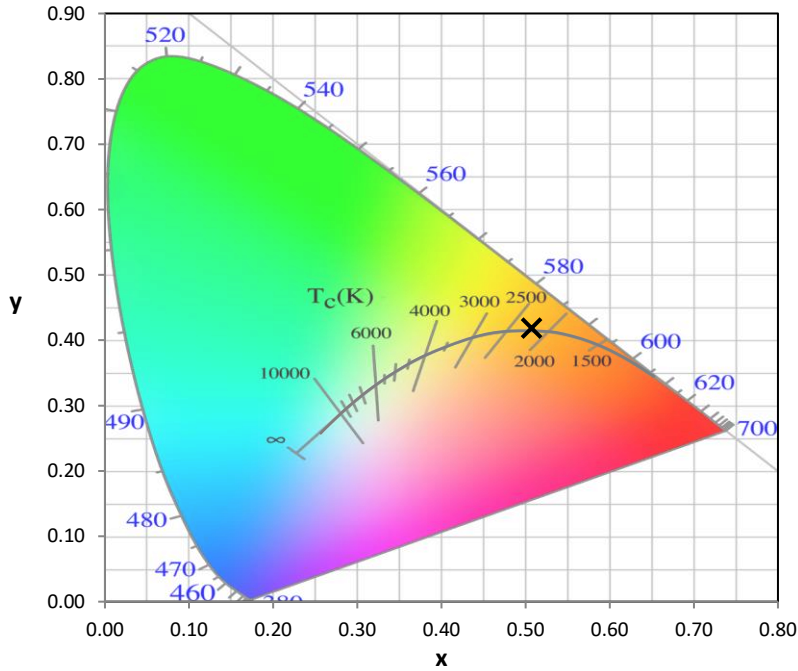
Stabilization Time: 0.813563M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-2

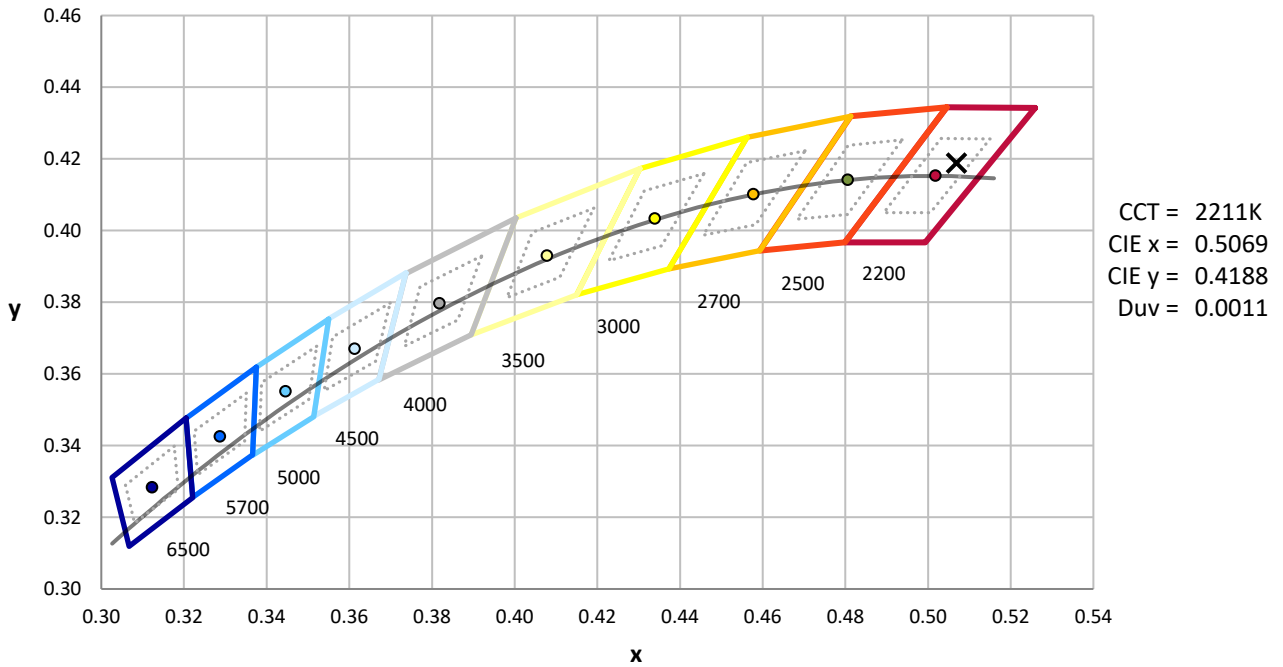
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



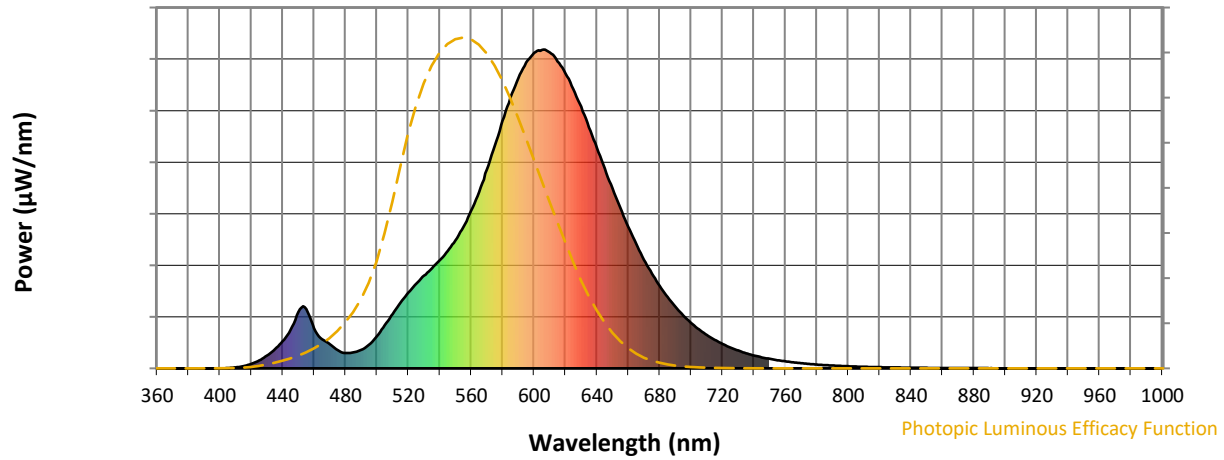
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 4-step quadrangle

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Photopic Flux vs. Wavelength

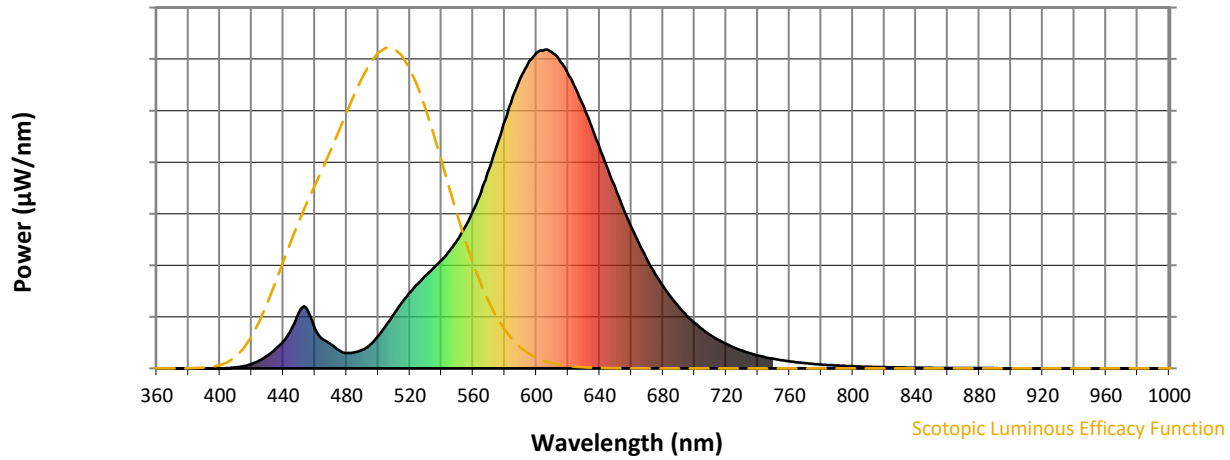


Photopic Lumens: NR

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



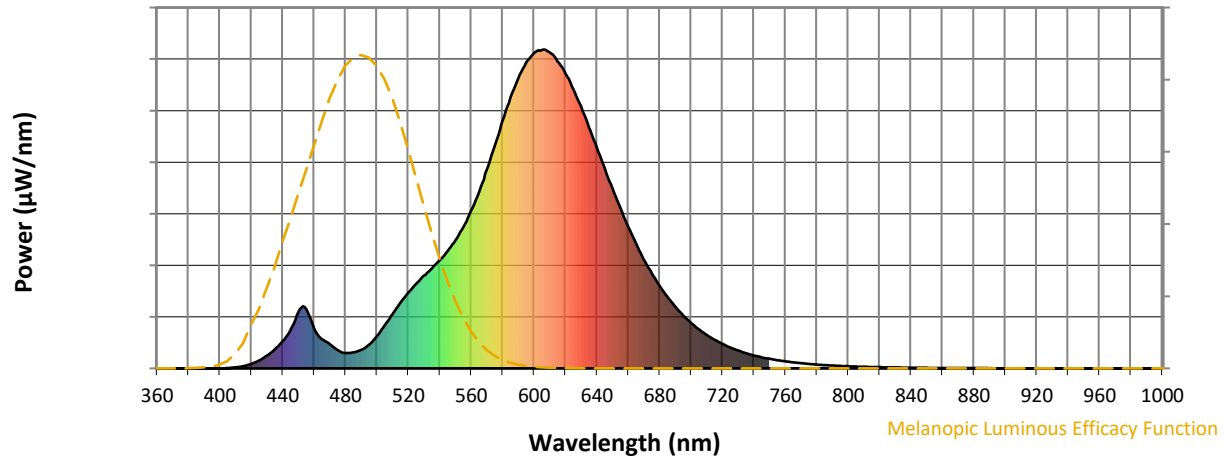
Scotopic Lumens: NR

S/P: 0.87

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	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.42

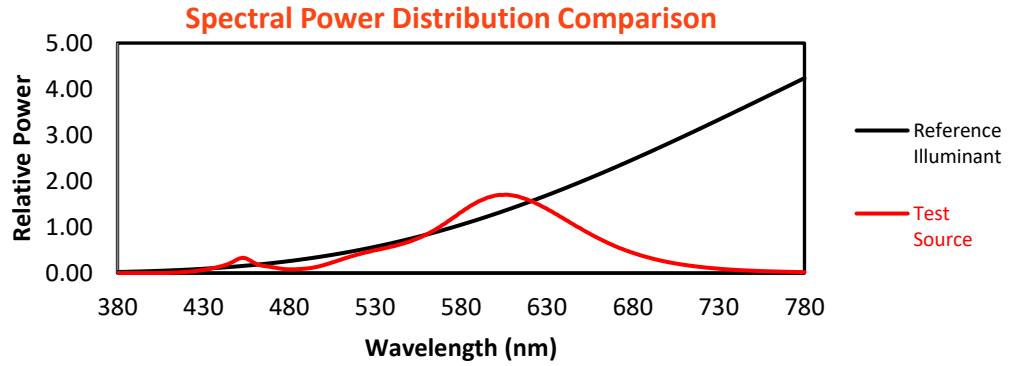
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	58	NR	620	925	NR	750	30	NR	880	1	NR
365	0	NR	495	75	NR	625	877	NR	755	26	NR	885	1	NR
370	0	NR	500	101	NR	630	821	NR	760	22	NR	890	1	NR
375	0	NR	505	135	NR	635	756	NR	765	19	NR	895	0	NR
380	0	NR	510	171	NR	640	692	NR	770	16	NR	900	0	NR
385	0	NR	515	206	NR	645	626	NR	775	14	NR	905	0	NR
390	0	NR	520	238	NR	650	564	NR	780	12	NR	910	0	NR
395	0	NR	525	265	NR	655	502	NR	785	10	NR	915	0	NR
400	0	NR	530	291	NR	660	444	NR	790	9	NR	920	0	NR
405	1	NR	535	314	NR	665	390	NR	795	8	NR	925	0	NR
410	3	NR	540	339	NR	670	341	NR	800	7	NR	930	0	NR
415	7	NR	545	368	NR	675	298	NR	805	6	NR	935	0	NR
420	14	NR	550	401	NR	680	259	NR	810	5	NR	940	0	NR
425	25	NR	555	444	NR	685	224	NR	815	4	NR	945	0	NR
430	40	NR	560	495	NR	690	194	NR	820	4	NR	950	0	NR
435	60	NR	565	553	NR	695	166	NR	825	3	NR	955	0	NR
440	85	NR	570	623	NR	700	142	NR	830	3	NR	960	0	NR
445	121	NR	575	699	NR	705	122	NR	835	2	NR	965	0	NR
450	177	NR	580	777	NR	710	105	NR	840	2	NR	970	0	NR
455	186	NR	585	850	NR	715	90	NR	845	2	NR	975	0	NR
460	126	NR	590	912	NR	720	77	NR	850	2	NR	980	0	NR
465	92	NR	595	960	NR	725	65	NR	855	1	NR	985	0	NR
470	76	NR	600	990	NR	730	56	NR	860	1	NR	990	0	NR
475	57	NR	605	998	NR	735	48	NR	865	1	NR	995	0	NR
480	48	NR	610	991	NR	740	40	NR	870	1	NR	1000	0	NR
485	50	NR	615	963	NR	745	35	NR	875	1	NR			

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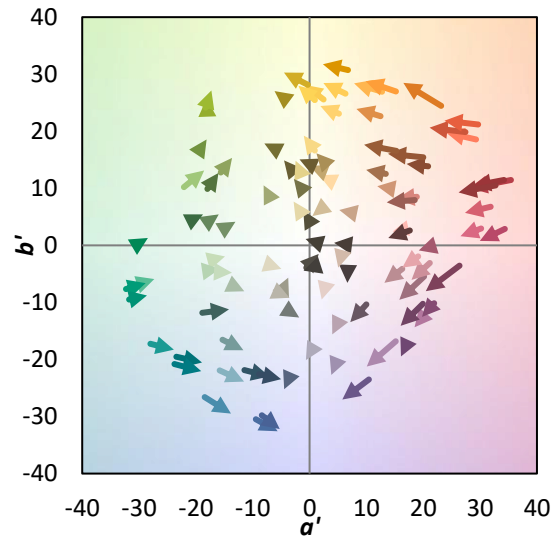
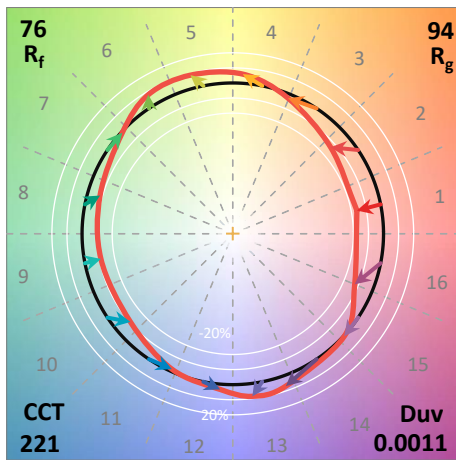
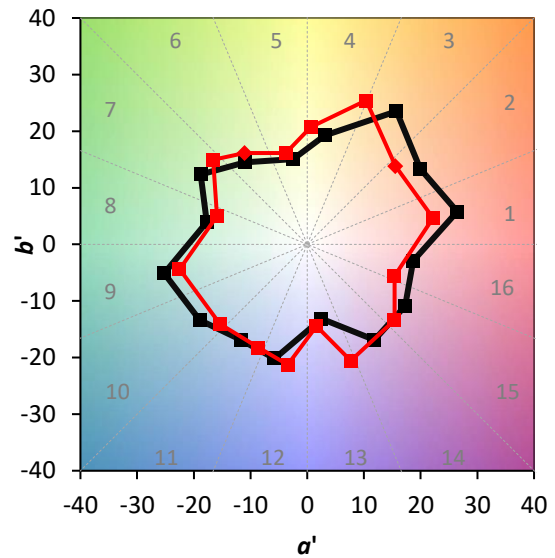
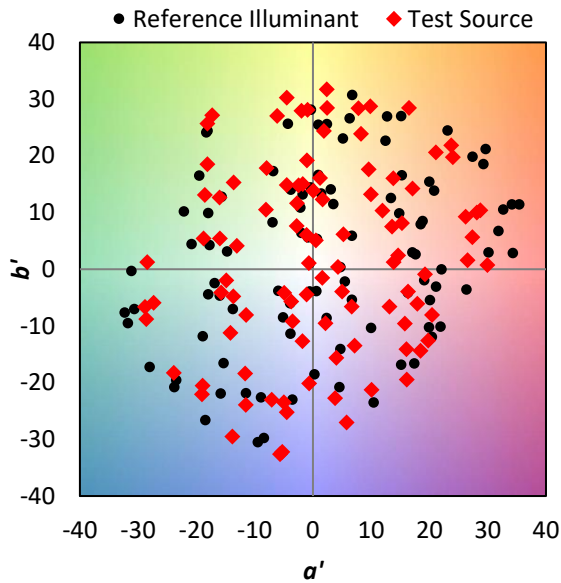
TM-30-18

Summary

$R_f = 76.1$
 $R_g = 94.3$
 CIE $R_a = 71.4$
 $R_9 = -29.2$



Color Vector Graphics

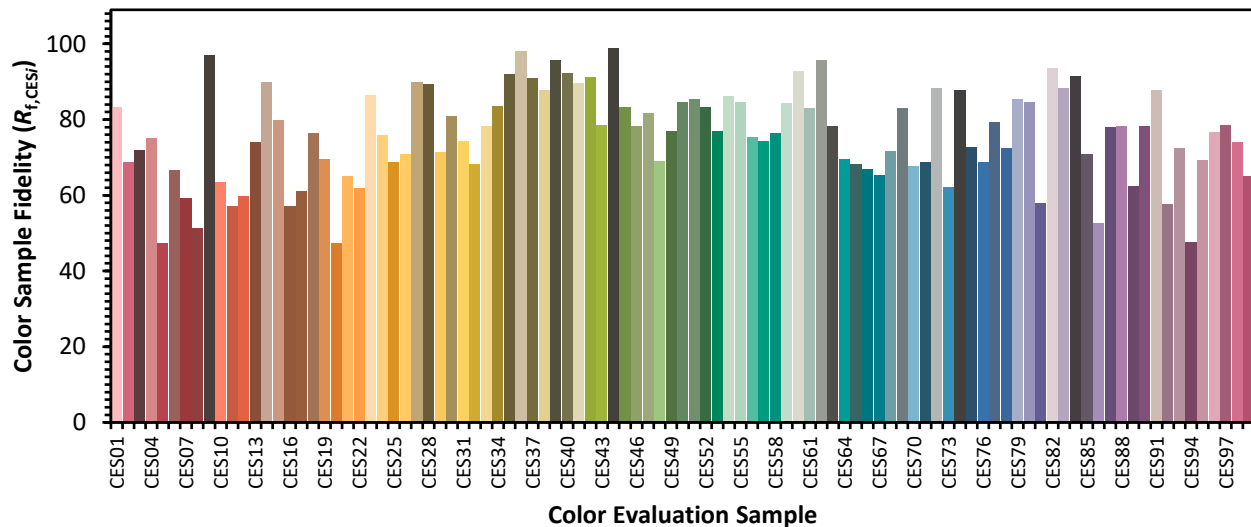


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Individual Sample Fidelity Index ($R_{f,i}$)

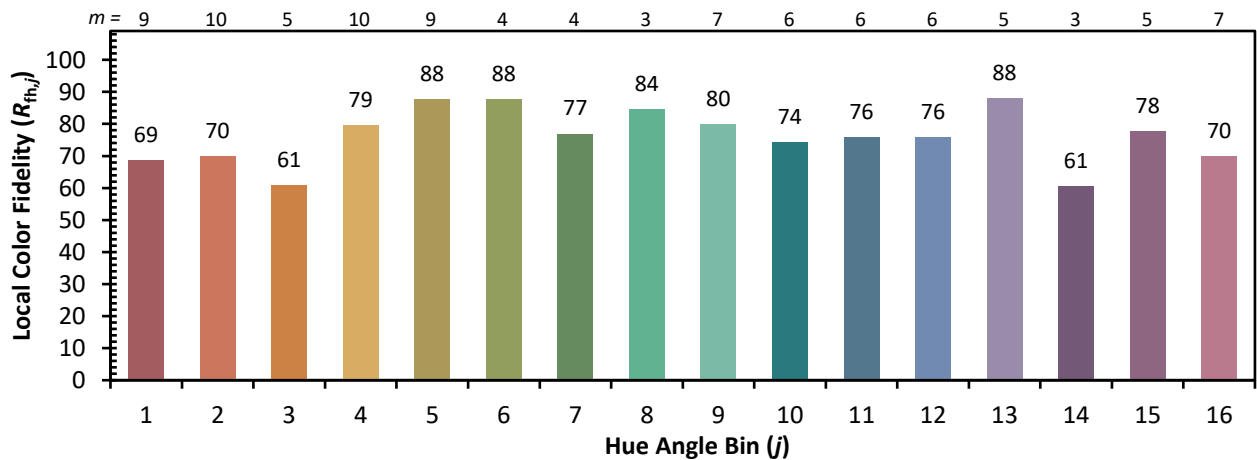
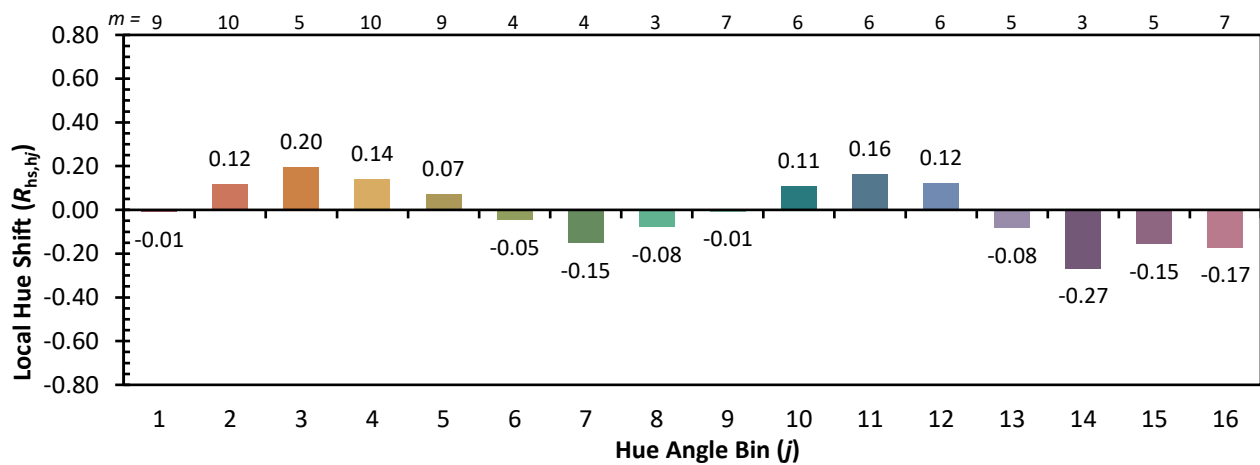
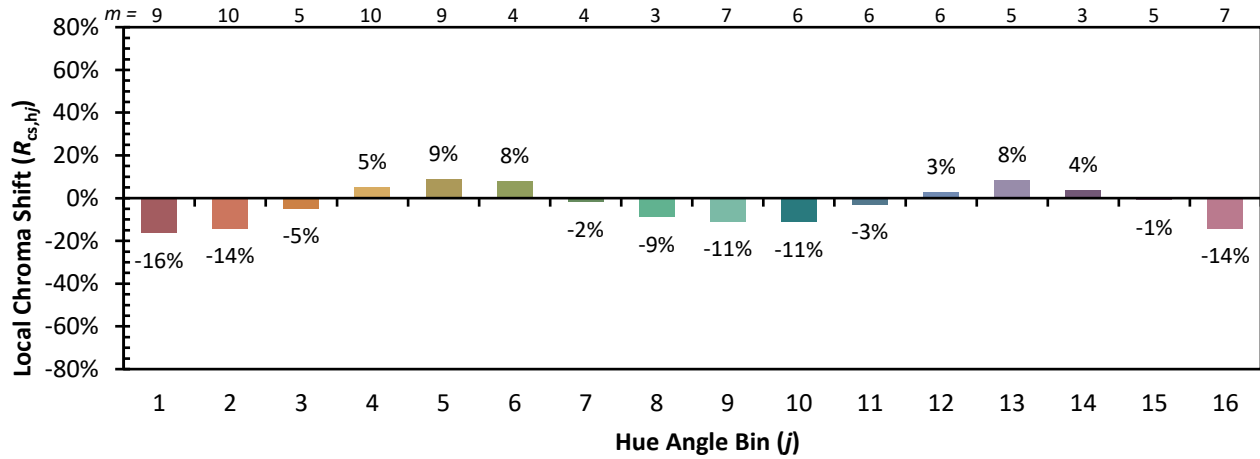
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CES02 = 65	CES27 = 90	CES52 = 83	CES77 = 79
CES03 = 32	CES28 = 89	CES53 = 77	CES78 = 72
CES04 = 72	CES29 = 71	CES54 = 86	CES79 = 86
CES05 = 52	CES30 = 81	CES55 = 85	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 58
CES07 = 44	CES32 = 68	CES57 = 74	CES82 = 93
CES08 = 42	CES33 = 78	CES58 = 76	CES83 = 88
CES09 = 29	CES34 = 84	CES59 = 84	CES84 = 92
CES10 = 79	CES35 = 92	CES60 = 93	CES85 = 71
CES11 = 62	CES36 = 98	CES61 = 83	CES86 = 53
CES12 = 68	CES37 = 91	CES62 = 96	CES87 = 78
CES13 = 45	CES38 = 88	CES63 = 78	CES88 = 78
CES14 = 75	CES39 = 96	CES64 = 69	CES89 = 63
CES15 = 72	CES40 = 92	CES65 = 68	CES90 = 78
CES16 = 49	CES41 = 90	CES66 = 67	CES91 = 88
CES17 = 51	CES42 = 91	CES67 = 65	CES92 = 58
CES18 = 57	CES43 = 79	CES68 = 72	CES93 = 72
CES19 = 74	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 68	CES45 = 83	CES70 = 68	CES95 = 69
CES21 = 88	CES46 = 78	CES71 = 69	CES96 = 77
CES22 = 81	CES47 = 82	CES72 = 88	CES97 = 79
CES23 = 92	CES48 = 69	CES73 = 62	CES98 = 74
CES24 = 92	CES49 = 77	CES74 = 88	CES99 = 65
CES25 = 74	CES50 = 85	CES75 = 73	



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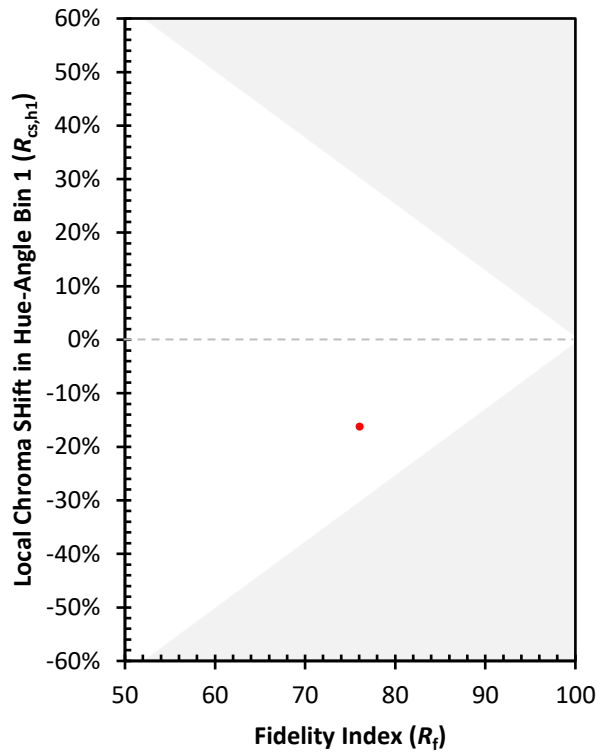
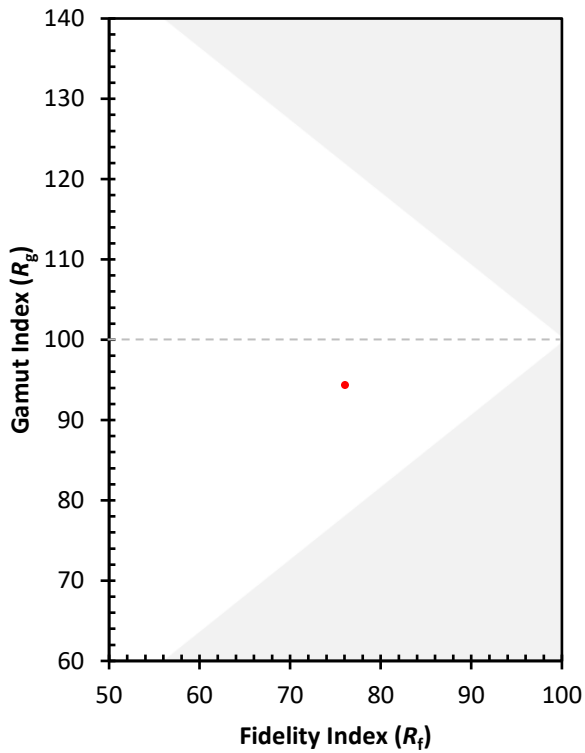
Color Rendition by Hue-Angle Bin



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TM-30-18

Measure Comparisons



(END OF REPORT)