

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: P981594

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

Issue Date: 04/15/2025

Test Information

Test Method: LM-79-08
Report Number: P981594
Test Lab: INNOVATION CENTER(G3)
Issue Date: 04/15/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-AMB-U-FR-T3
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T3 DISTRIBUTION LENS
Light Source: (4) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 880 lumens
Efficiency: N/A
Efficacy: 30.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type III - Short
BUG Rating: B0 - U3 - G1

Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 13%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



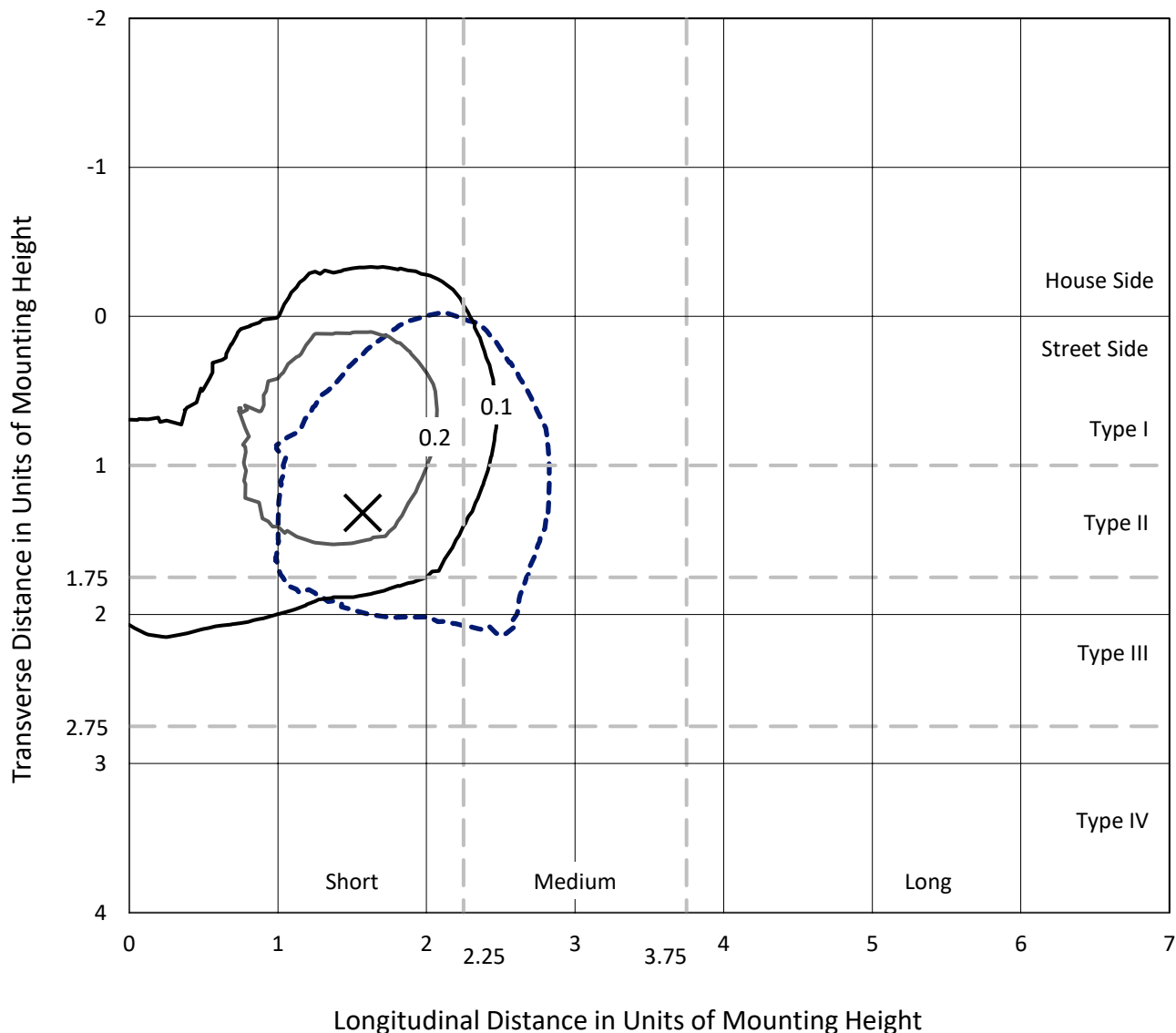
REPORT NUMBER: P981594

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

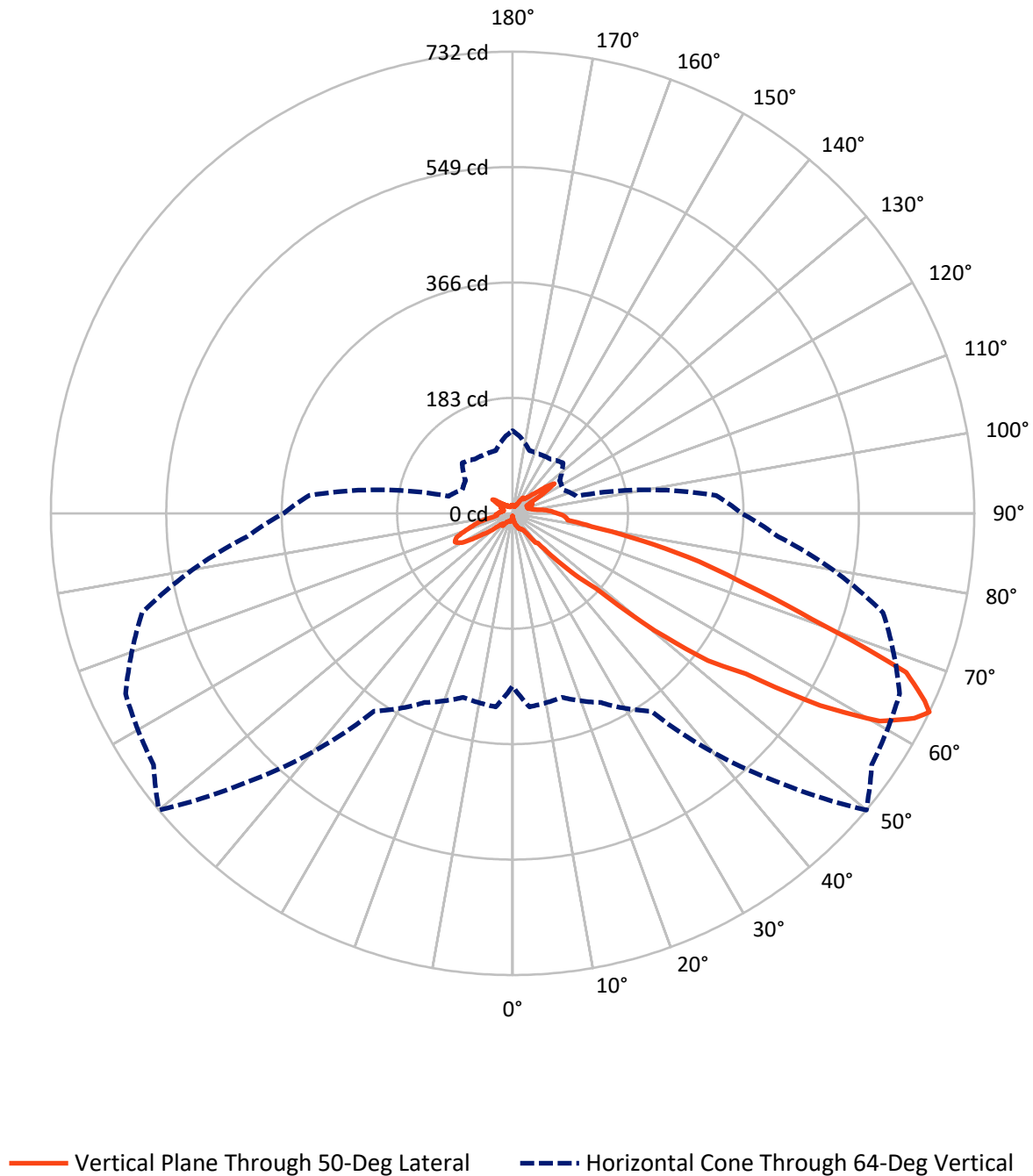


Based on 15 foot mounting height. Maximum calculated value = 0.4 fc

Type III - Short - N/A

REPORT NUMBER: P981594
CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P981594

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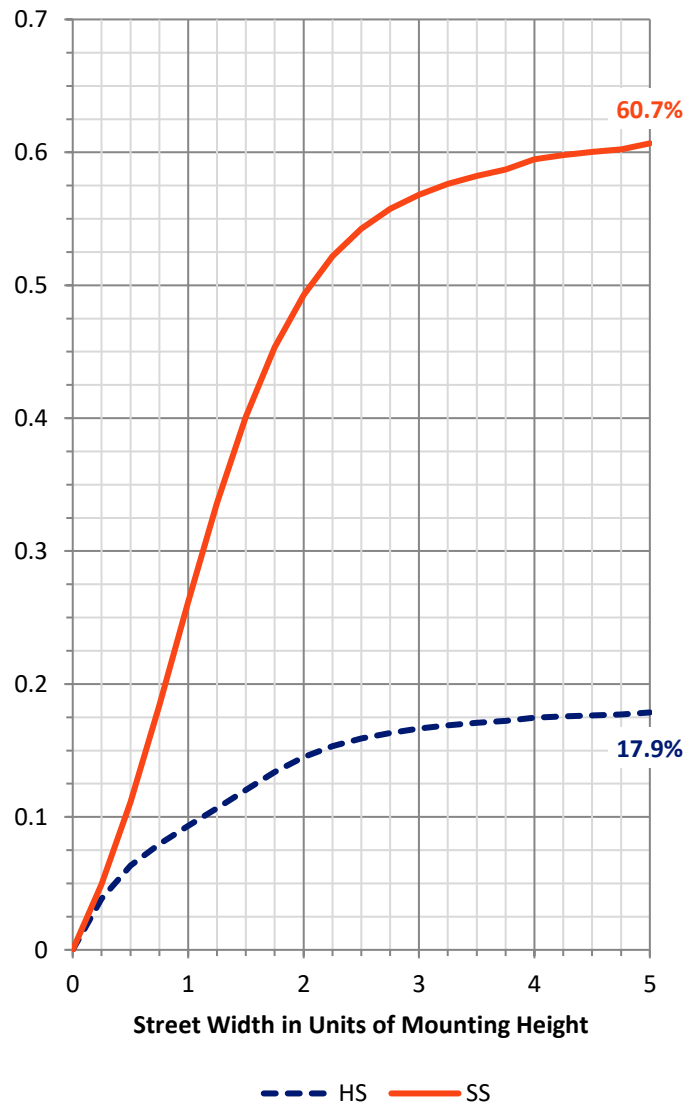
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.0	60.6	224.6
	% Fixture	18.6	6.9	25.5
Street Side	Lumens	551.6	103.9	655.5
	% Fixture	62.7	11.8	74.5
Total	Lumens	715.6	164.5	880.0
	% Fixture	81.3	18.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.1
10°-20°	4.6	0.5
20°-30°	9.3	1.1
30°-40°	19.1	2.2
40°-50°	50.5	5.7
50°-60°	166.4	18.9
60°-70°	278.6	31.7
70°-80°	137.4	15.6
80°-90°	48.9	5.6
90°-100°	32.4	3.7
100°-110°	21.1	2.4
110°-120°	23.2	2.6
120°-130°	40.8	4.6
130°-140°	23.2	2.6
140°-150°	12.8	1.5
150°-160°	6.3	0.7
160°-170°	3.3	0.4
170°-180°	1.2	0.1
0°-90°	715.6	81.3
0°-180°	880.0	100.0

Coefficient of Utilization



REPORT NUMBER: P981594

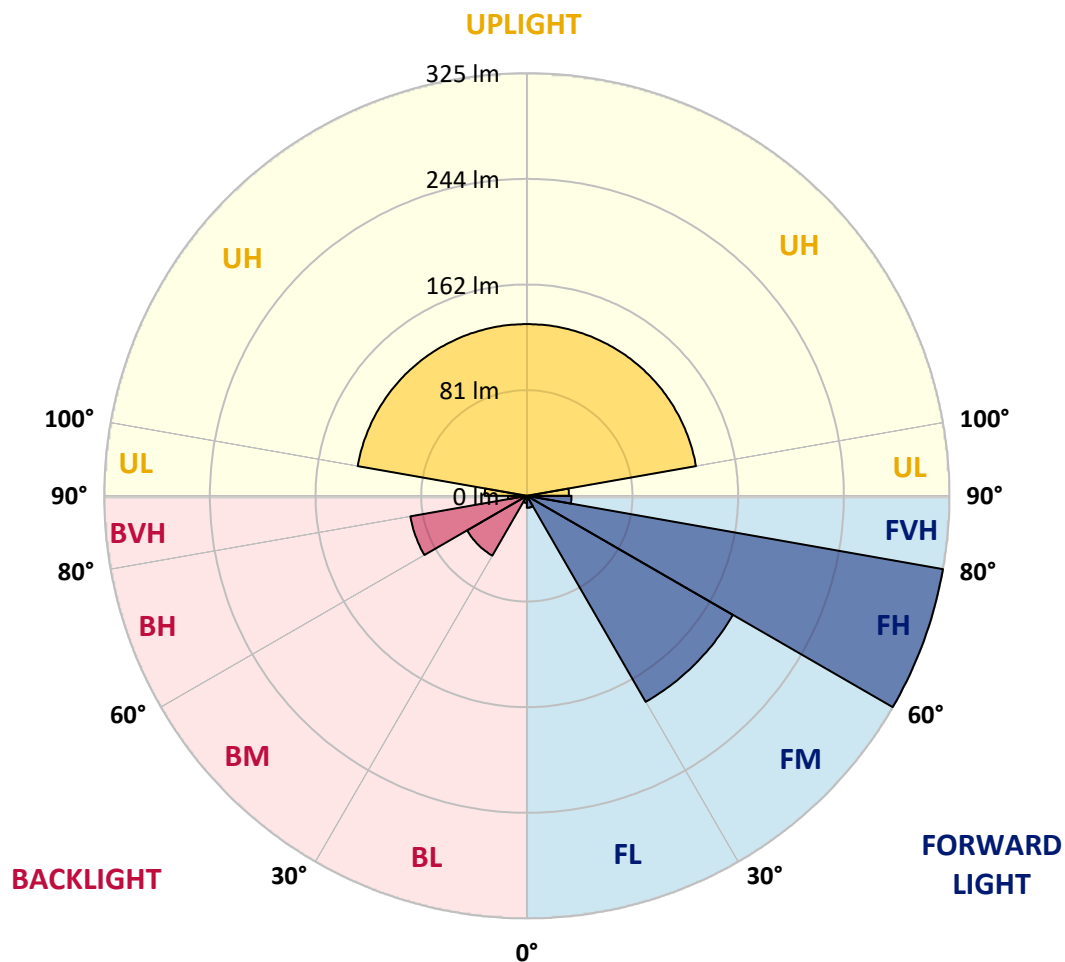
CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9.2	1.0			
FM	(30°-60°)	183.0	20.8			
FH	(60°-80°)	325.0	36.9			G0/660
FVH	(80°-90°)	34.4	3.9			G1/100
BL	(0°-30°)	5.4	0.6	B0/110		
BM	(30°-60°)	53.1	6.0	B0/220		
BH	(60°-80°)	91.0	10.3	B0/110		G0/110
BVH	(80°-90°)	14.5	1.6			G1/100
UL	(90°-100°)	32.4	3.7		U2/50	
UH	(100°-180°)	132.1	15.0		U3/500	

BUG Rating: B0-U3-G1

Type III Short



REPORT NUMBER: P981594

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.0
7.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0
10°	15.0	15.0	15.0	15.0	14.0	14.0	14.0	15.0	15.0	13.0	12.0
12.5°	19.0	19.0	19.0	19.0	18.0	17.0	17.0	17.0	17.0	16.0	15.0
15°	21.0	21.0	21.0	21.0	21.0	20.0	19.0	19.0	20.0	19.0	18.0
17.5°	22.0	22.0	22.0	22.0	22.0	21.0	21.0	21.0	21.0	20.0	20.0
20°	23.0	23.0	23.0	23.0	24.0	23.0	24.0	23.0	23.0	22.0	20.0
22.5°	24.0	24.0	24.0	24.0	26.0	25.0	26.0	25.0	25.0	24.0	21.0
25°	26.0	26.0	25.0	25.0	27.0	27.0	27.0	27.0	26.0	26.0	22.0
27.5°	28.0	27.0	27.0	27.0	28.0	29.0	28.0	28.0	28.0	27.0	22.0
30°	29.0	29.0	28.0	29.0	29.0	31.0	30.0	30.0	30.0	29.0	23.0
32.5°	30.0	30.0	30.0	31.0	30.0	33.0	32.0	33.0	34.0	31.0	25.0
35°	34.0	34.0	35.0	37.0	38.0	40.0	39.0	39.0	40.0	38.0	32.0
37.5°	57.0	57.0	52.0	49.0	49.0	59.0	59.0	60.0	62.0	55.0	44.0
40°	51.0	52.0	52.0	52.0	50.0	57.0	62.0	58.0	65.0	57.0	47.0
42.5°	57.0	59.0	63.0	67.0	65.0	75.0	96.9	76.0	89.9	72.0	65.0
45°	70.0	71.0	71.0	72.0	72.0	99.9	139.9	103.9	118.9	88.9	78.0
47.5°	84.0	83.0	86.0	97.9	106.9	125.9	176.9	134.9	152.9	111.9	106.9
50°	118.9	120.9	128.9	139.9	142.9	191.9	291.8	229.9	265.8	182.9	161.9
52.5°	135.9	148.9	154.9	184.9	187.9	250.9	387.8	306.8	325.8	247.9	202.9
55°	148.9	169.9	181.9	220.9	236.9	322.8	448.7	383.8	382.8	310.8	236.9
57.5°	204.9	228.9	226.9	260.9	288.8	422.8	574.7	527.7	510.7	415.8	298.8
60°	246.9	281.8	271.8	302.8	351.8	534.7	668.6	609.7	603.7	524.7	367.8
62.5°	267.8	299.8	290.8	322.8	384.8	599.7	714.6	672.6	651.6	575.7	416.8
64°	273.8	307.8	301.8	330.8	382.8	606.7	731.6	694.6	676.6	607.7	421.8
65°	271.8	307.8	302.8	330.8	377.8	599.7	717.6	711.6	686.6	601.7	429.8
67.5°	251.9	284.8	281.8	310.8	330.8	518.7	672.6	639.6	618.6	530.7	384.8
70°	203.9	225.9	220.9	243.9	262.9	385.8	503.7	477.7	448.7	396.8	290.8
72.5°	180.9	179.9	177.9	189.9	197.9	284.8	387.8	364.8	344.8	300.8	216.9
75°	142.9	137.9	143.9	143.9	141.9	209.9	304.8	292.8	278.8	230.9	168.9
77.5°	91.9	85.0	95.9	103.9	93.9	133.9	210.9	218.9	216.9	164.9	127.9
80°	52.0	50.0	57.0	62.0	58.0	84.0	126.9	140.9	138.9	104.9	83.0
82.5°	40.0	42.0	45.0	49.0	47.0	66.0	88.0	87.0	89.9	75.0	58.0
85°	48.0	49.0	47.0	48.0	47.0	65.0	85.0	84.0	84.0	70.0	52.0
87.5°	46.0	47.0	46.0	47.0	46.0	62.0	79.0	80.0	80.0	69.0	52.0
90°	35.0	38.0	38.0	42.0	40.0	53.0	69.0	70.0	69.0	61.0	48.0
92.5°	32.0	33.0	34.0	36.0	35.0	47.0	61.0	61.0	60.0	53.0	41.0
95°	29.0	30.0	31.0	32.0	31.0	41.0	53.0	54.0	52.0	47.0	37.0
97.5°	25.0	25.0	26.0	27.0	26.0	33.0	40.0	42.0	40.0	36.0	28.0
100°	22.0	22.0	22.0	23.0	23.0	29.0	34.0	35.0	34.0	31.0	25.0
102.5°	20.0	20.0	21.0	22.0	21.0	26.0	31.0	31.0	31.0	28.0	24.0
105°	19.0	20.0	21.0	21.0	20.0	24.0	28.0	29.0	29.0	26.0	22.0
107.5°	18.0	19.0	19.0	19.0	19.0	22.0	26.0	26.0	26.0	24.0	21.0

REPORT NUMBER: P981594

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
110°	20.0	21.0	21.0	20.0	20.0	22.0	25.0	26.0	26.0	24.0	22.0
112.5°	28.0	29.0	28.0	27.0	29.0	30.0	32.0	32.0	32.0	32.0	29.0
115°	29.0	30.0	30.0	29.0	30.0	33.0	35.0	35.0	36.0	35.0	33.0
117.5°	21.0	25.0	22.0	23.0	23.0	25.0	25.0	25.0	27.0	27.0	28.0
120°	31.0	33.0	28.0	26.0	26.0	30.0	32.0	35.0	33.0	28.0	27.0
122.5°	54.0	56.0	61.0	63.0	60.0	61.0	59.0	58.0	59.0	57.0	51.0
125°	80.0	80.0	77.0	74.0	74.0	80.0	81.0	83.0	83.0	76.0	69.0
127.5°	60.0	61.0	64.0	66.0	66.0	68.0	69.0	70.0	72.0	72.0	69.0
130°	46.0	46.0	50.0	52.0	52.0	54.0	54.0	53.0	54.0	56.0	52.0
132.5°	40.0	40.0	42.0	45.0	46.0	45.0	45.0	44.0	45.0	48.0	46.0
135°	36.0	36.0	35.0	34.0	35.0	37.0	37.0	38.0	40.0	40.0	38.0
137.5°	31.0	31.0	30.0	28.0	29.0	32.0	33.0	33.0	35.0	35.0	32.0
140°	25.0	25.0	24.0	24.0	25.0	27.0	29.0	30.0	31.0	30.0	27.0
142.5°	18.0	18.0	20.0	22.0	23.0	29.0	28.0	28.0	30.0	32.0	24.0
145°	26.0	26.0	25.0	24.0	27.0	32.0	30.0	30.0	33.0	33.0	25.0
147.5°	25.0	25.0	24.0	25.0	27.0	27.0	27.0	28.0	29.0	29.0	25.0
150°	19.0	19.0	19.0	18.0	22.0	21.0	21.0	22.0	22.0	23.0	21.0
152.5°	15.0	15.0	15.0	15.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0
155°	15.0	14.0	14.0	14.0	16.0	15.0	15.0	15.0	15.0	15.0	14.0
157.5°	13.0	13.0	13.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0	13.0
160°	12.0	12.0	12.0	13.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0
162.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.0	12.0	12.0
165°	12.0	12.0	12.0	12.0	12.0	11.0	11.0	11.0	11.0	12.0	12.0
167.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.0	12.0	12.0	12.0
170°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
172.5°	13.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0	12.0	12.0
175°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
177.5°	14.0	14.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0	13.0	13.0
180°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

REPORT NUMBER: P981594

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
2.5°	6.0	5.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5°	7.0	7.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	6.0	6.0
7.5°	10.0	10.0	10.0	11.0	10.0	8.0	7.0	7.0	8.0	9.0	10.0
10°	12.0	12.0	13.0	15.0	13.0	10.0	8.0	8.0	9.0	11.0	11.0
12.5°	14.0	14.0	14.0	15.0	14.0	11.0	9.0	9.0	10.0	11.0	11.0
15°	17.0	17.0	15.0	14.0	14.0	12.0	11.0	11.0	11.0	11.0	11.0
17.5°	19.0	18.0	16.0	14.0	13.0	12.0	11.0	11.0	11.0	10.0	10.0
20°	19.0	18.0	16.0	15.0	14.0	12.0	11.0	11.0	10.0	10.0	10.0
22.5°	20.0	19.0	17.0	15.0	14.0	13.0	12.0	11.0	11.0	11.0	11.0
25°	21.0	20.0	18.0	16.0	15.0	13.0	12.0	11.0	11.0	11.0	11.0
27.5°	21.0	20.0	19.0	17.0	15.0	14.0	13.0	11.0	11.0	11.0	11.0
30°	22.0	22.0	20.0	18.0	16.0	15.0	13.0	12.0	11.0	11.0	11.0
32.5°	24.0	23.0	21.0	19.0	17.0	15.0	14.0	12.0	11.0	11.0	11.0
35°	30.0	30.0	26.0	21.0	18.0	16.0	15.0	13.0	12.0	11.0	11.0
37.5°	41.0	39.0	35.0	31.0	26.0	20.0	17.0	13.0	12.0	11.0	11.0
40°	42.0	37.0	30.0	29.0	25.0	26.0	23.0	17.0	13.0	11.0	11.0
42.5°	58.0	52.0	43.0	37.0	20.0	23.0	24.0	22.0	16.0	13.0	12.0
45°	63.0	56.0	47.0	40.0	24.0	25.0	24.0	21.0	20.0	16.0	16.0
47.5°	82.0	73.0	51.0	38.0	26.0	28.0	26.0	23.0	20.0	18.0	18.0
50°	125.9	111.9	75.0	45.0	33.0	36.0	30.0	26.0	24.0	21.0	21.0
52.5°	163.9	147.9	90.9	49.0	43.0	50.0	43.0	35.0	31.0	31.0	31.0
55°	203.9	189.9	86.0	55.0	51.0	62.0	56.0	50.0	46.0	49.0	51.0
57.5°	263.9	250.9	103.9	68.0	66.0	77.0	68.0	64.0	66.0	86.0	93.9
60°	320.8	292.8	106.9	79.0	82.0	99.9	88.0	85.0	87.0	120.9	131.9
62.5°	354.8	315.8	105.9	85.0	88.9	109.9	100.9	100.9	103.9	128.9	136.9
64°	362.8	323.8	104.9	88.0	90.9	112.9	104.9	102.9	102.9	122.9	130.9
65°	365.8	318.8	101.9	88.9	90.9	110.9	102.9	100.9	96.9	115.9	123.9
67.5°	339.8	291.8	93.9	84.0	88.0	103.9	93.9	87.0	82.0	91.9	95.9
70°	255.9	219.9	80.0	72.0	77.0	86.0	77.0	71.0	67.0	70.0	71.0
72.5°	190.9	164.9	70.0	68.0	68.0	69.0	63.0	56.0	55.0	57.0	59.0
75°	154.9	130.9	68.0	64.0	57.0	60.0	50.0	41.0	39.0	39.0	38.0
77.5°	114.9	97.9	55.0	50.0	42.0	48.0	36.0	27.0	25.0	25.0	24.0
80°	73.0	65.0	35.0	32.0	28.0	33.0	24.0	19.0	20.0	20.0	18.0
82.5°	56.0	52.0	30.0	27.0	24.0	26.0	22.0	19.0	19.0	19.0	18.0
85°	50.0	50.0	29.0	27.0	26.0	27.0	23.0	19.0	19.0	19.0	18.0
87.5°	50.0	48.0	30.0	29.0	26.0	25.0	21.0	17.0	18.0	19.0	18.0
90°	46.0	43.0	29.0	27.0	24.0	22.0	19.0	17.0	18.0	18.0	17.0
92.5°	39.0	35.0	24.0	23.0	22.0	22.0	20.0	19.0	19.0	19.0	18.0
95°	34.0	32.0	21.0	21.0	20.0	21.0	19.0	17.0	18.0	17.0	17.0
97.5°	27.0	25.0	19.0	18.0	18.0	18.0	16.0	15.0	16.0	16.0	15.0
100°	24.0	24.0	19.0	18.0	18.0	18.0	17.0	16.0	17.0	17.0	17.0
102.5°	22.0	22.0	17.0	17.0	16.0	16.0	15.0	15.0	16.0	16.0	15.0
105°	21.0	21.0	17.0	16.0	15.0	15.0	15.0	14.0	14.0	15.0	15.0
107.5°	20.0	20.0	17.0	16.0	15.0	15.0	14.0	13.0	14.0	14.0	14.0



REPORT NUMBER: P981594

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	21.0	20.0	17.0	16.0	15.0	15.0	15.0	14.0	14.0	14.0	14.0
112.5°	27.0	25.0	22.0	19.0	18.0	17.0	17.0	16.0	15.0	14.0	14.0
115°	31.0	30.0	27.0	24.0	21.0	20.0	17.0	16.0	15.0	14.0	14.0
117.5°	29.0	25.0	21.0	20.0	18.0	17.0	17.0	16.0	15.0	15.0	15.0
120°	29.0	24.0	21.0	21.0	20.0	19.0	17.0	16.0	17.0	17.0	16.0
122.5°	49.0	44.0	40.0	34.0	28.0	23.0	22.0	21.0	18.0	16.0	16.0
125°	65.0	61.0	52.0	48.0	42.0	35.0	28.0	22.0	17.0	15.0	15.0
127.5°	66.0	64.0	57.0	50.0	39.0	30.0	23.0	19.0	16.0	15.0	15.0
130°	50.0	47.0	42.0	36.0	30.0	24.0	20.0	17.0	15.0	14.0	14.0
132.5°	44.0	42.0	36.0	30.0	26.0	21.0	18.0	15.0	14.0	13.0	13.0
135°	36.0	33.0	29.0	26.0	22.0	19.0	16.0	14.0	13.0	13.0	12.0
137.5°	31.0	29.0	25.0	23.0	20.0	18.0	15.0	13.0	13.0	12.0	12.0
140°	25.0	24.0	22.0	20.0	18.0	15.0	13.0	12.0	12.0	13.0	12.0
142.5°	22.0	21.0	19.0	16.0	14.0	13.0	13.0	12.0	13.0	13.0	12.0
145°	19.0	17.0	16.0	16.0	15.0	14.0	14.0	13.0	12.0	12.0	12.0
147.5°	22.0	20.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	12.0	12.0
150°	18.0	17.0	17.0	16.0	14.0	13.0	12.0	11.0	11.0	12.0	12.0
152.5°	14.0	13.0	13.0	13.0	13.0	12.0	11.0	11.0	11.0	11.0	11.0
155°	14.0	13.0	13.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0
157.5°	13.0	12.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
160°	12.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
162.5°	12.0	12.0	11.0	11.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0
165°	12.0	12.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0
167.5°	12.0	12.0	12.0	12.0	12.0	12.0	13.0	13.0	12.0	12.0	12.0
170°	12.0	12.0	12.0	12.0	12.0	12.0	13.0	13.0	12.0	12.0	12.0
172.5°	12.0	12.0	12.0	12.0	12.0	13.0	13.0	13.0	13.0	13.0	13.0
175°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
177.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	14.0	13.0
180°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2501-332-6

Test Date: 03/28/2025

Luminaire Tested: FFX-CLB-AMB-U-FR-T5

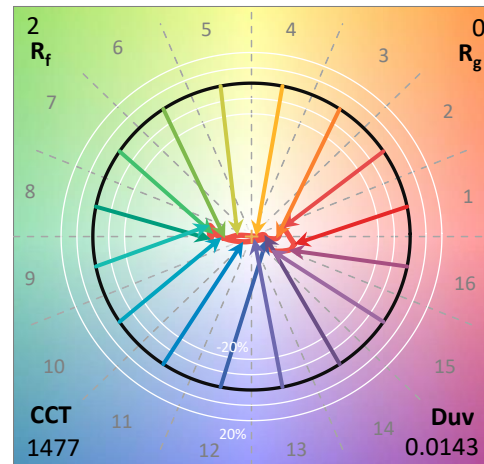
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-332-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 03/31/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-AMB-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR AMBER T5

Spectral Parameters

CCT (K):	1477	CRI (Ra):	-16.4		
CIE u':	0.3612	R1:	-26.9	R9:	-362.0
CIE v':	0.5457	R2:	55.7	R10:	34.1
Duv:	0.0143	R3:	19.5	R11:	-85.9
CIE x:	0.5980	R4:	-61.2	R12:	-0.3
CIE y:	0.4014	R5:	-34.3	R13:	-8.9
CIE z:	0.0006	R6:	47.8	R14:	48.3
Peak Wavelength (nm):	599	R7:	-4.8	R15:	-60.0
Dominant Wavelength (nm):	594	R8:	-127.3		
Purity:	99.99006				
Rf:	1.7				
Rg:	0.1				



Test Conditions

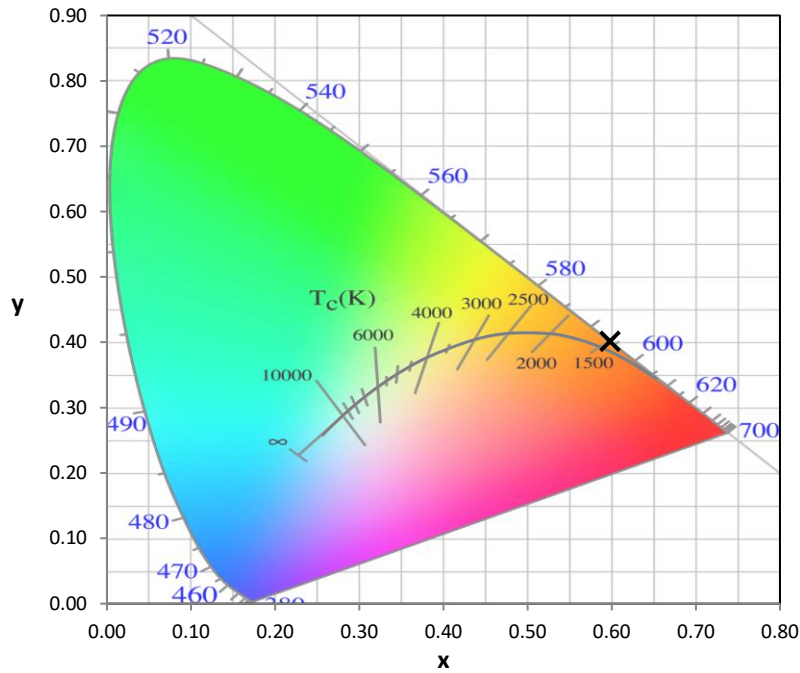
Stabilization Time: 152M
 Operation Time: 3H 32M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

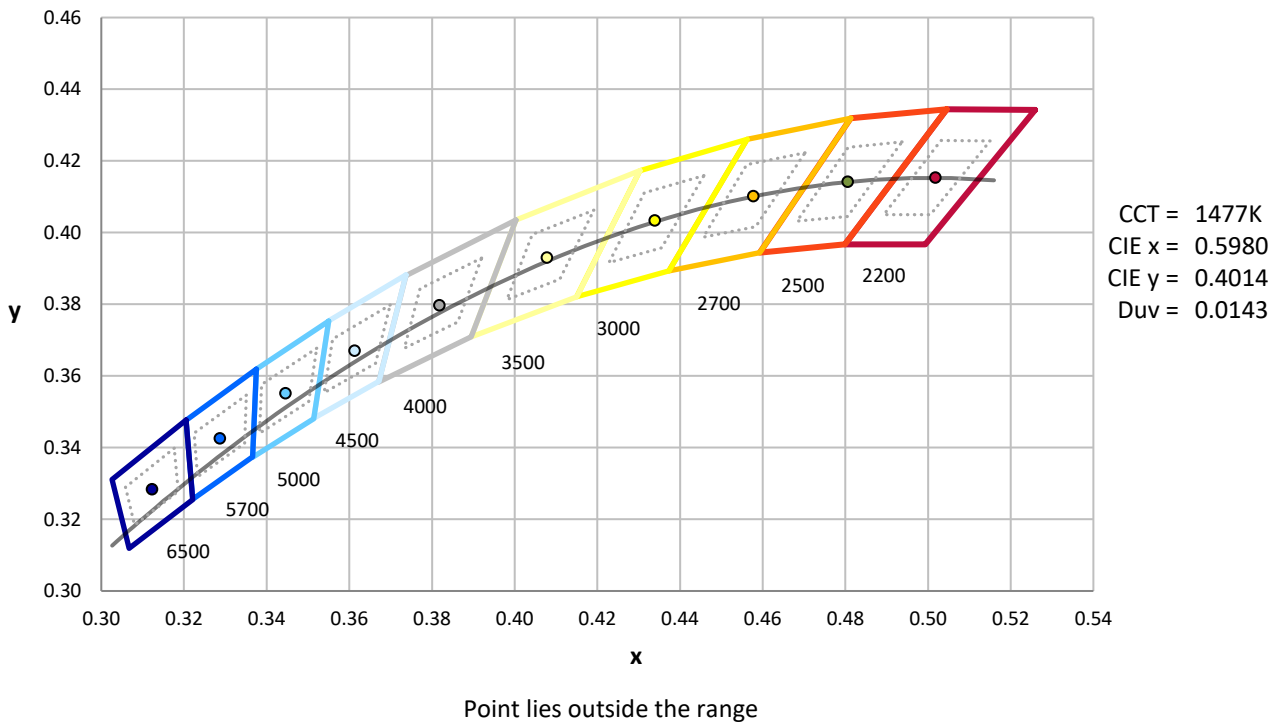
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2501-332-6

CIE 1931 Chromaticity Diagram

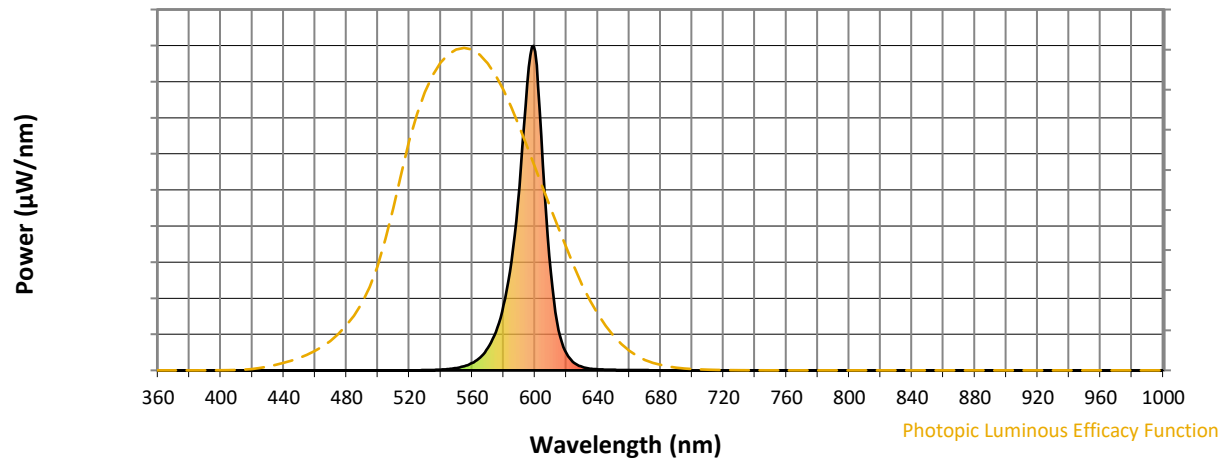


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2501-332-6

Photopic Flux vs. Wavelength

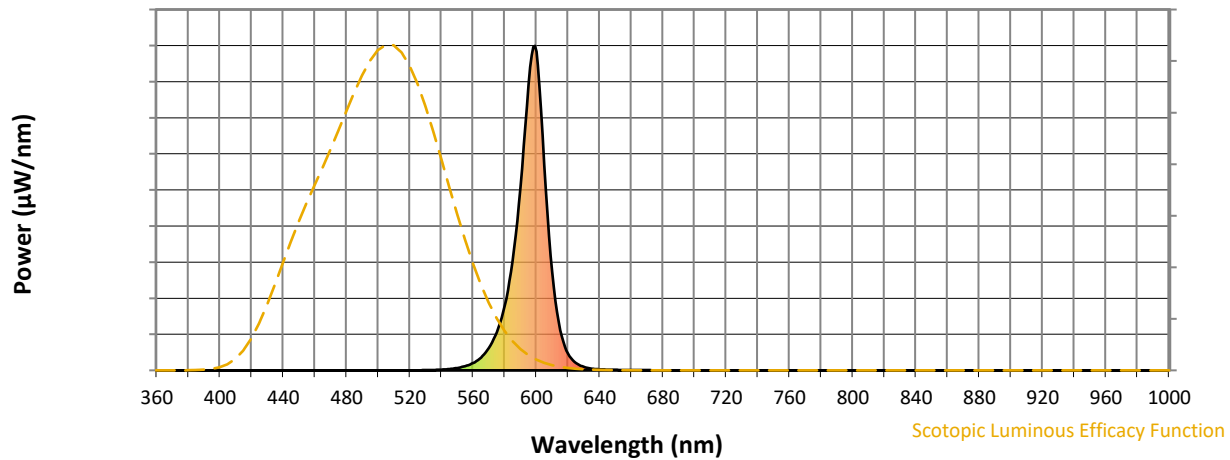


Photopic Lumens: NR

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Scotopic Flux vs. Wavelength



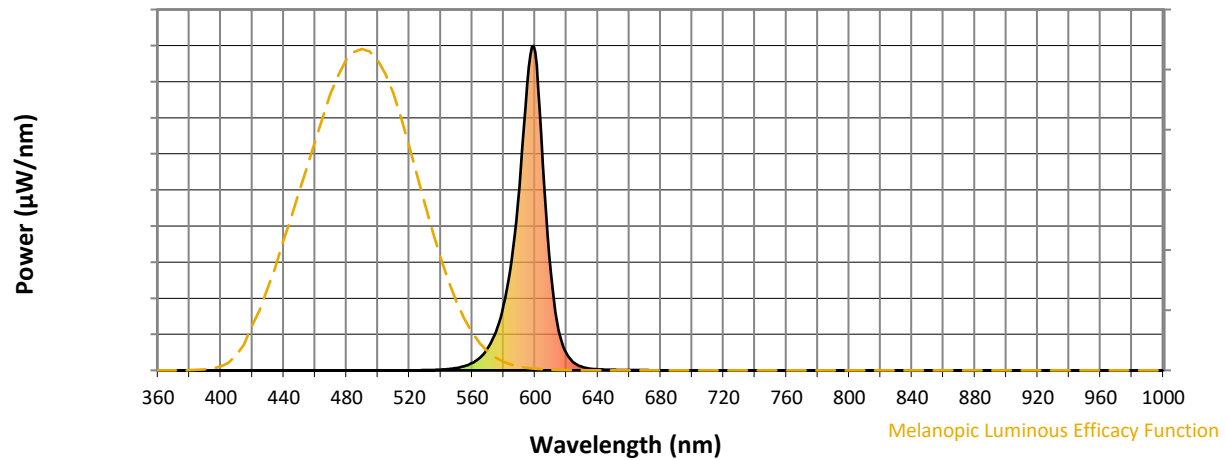
Scotopic Lumens: NR

S/P: 0.21

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	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.11

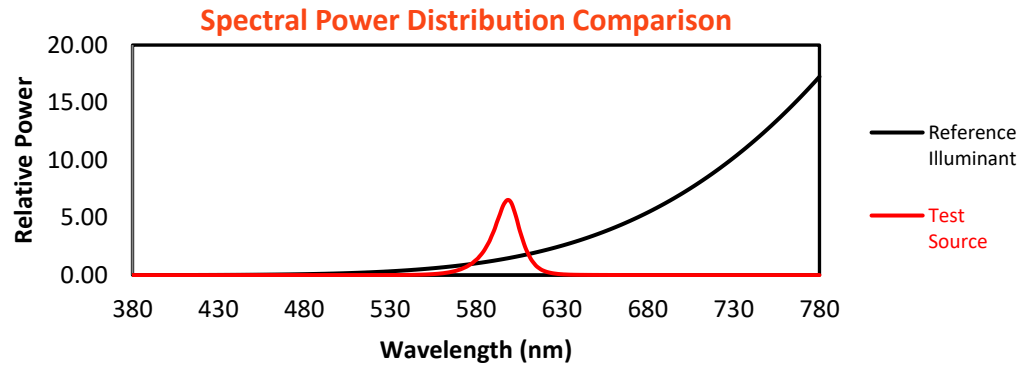
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	620	52	NR	750	0	NR	880	0	NR
365	0	NR	495	0	NR	625	23	NR	755	0	NR	885	0	NR
370	0	NR	500	0	NR	630	11	NR	760	0	NR	890	0	NR
375	0	NR	505	0	NR	635	5	NR	765	0	NR	895	0	NR
380	0	NR	510	0	NR	640	3	NR	770	0	NR	900	0	NR
385	0	NR	515	0	NR	645	2	NR	775	0	NR	905	0	NR
390	0	NR	520	0	NR	650	2	NR	780	0	NR	910	0	NR
395	0	NR	525	0	NR	655	1	NR	785	0	NR	915	0	NR
400	0	NR	530	1	NR	660	1	NR	790	0	NR	920	0	NR
405	0	NR	535	1	NR	665	1	NR	795	0	NR	925	0	NR
410	0	NR	540	2	NR	670	1	NR	800	0	NR	930	0	NR
415	0	NR	545	4	NR	675	0	NR	805	0	NR	935	0	NR
420	0	NR	550	7	NR	680	0	NR	810	0	NR	940	0	NR
425	0	NR	555	13	NR	685	0	NR	815	0	NR	945	0	NR
430	0	NR	560	23	NR	690	0	NR	820	0	NR	950	0	NR
435	0	NR	565	40	NR	695	0	NR	825	0	NR	955	0	NR
440	0	NR	570	69	NR	700	0	NR	830	0	NR	960	0	NR
445	0	NR	575	118	NR	705	0	NR	835	0	NR	965	0	NR
450	0	NR	580	201	NR	710	0	NR	840	0	NR	970	0	NR
455	0	NR	585	337	NR	715	0	NR	845	0	NR	975	0	NR
460	0	NR	590	566	NR	720	0	NR	850	0	NR	980	0	NR
465	0	NR	595	880	NR	725	0	NR	855	0	NR	985	0	NR
470	0	NR	600	982	NR	730	0	NR	860	0	NR	990	0	NR
475	0	NR	605	633	NR	735	0	NR	865	0	NR	995	0	NR
480	0	NR	610	302	NR	740	0	NR	870	0	NR	1000	0	NR
485	0	NR	615	123	NR	745	0	NR	875	0	NR			

REPORT NUMBER: SP1-2501-332-6

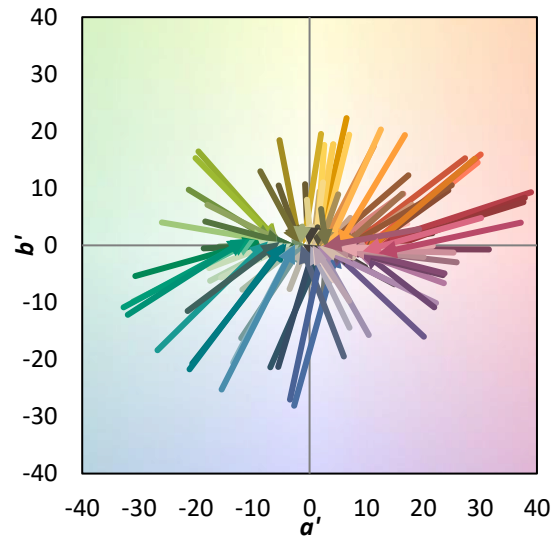
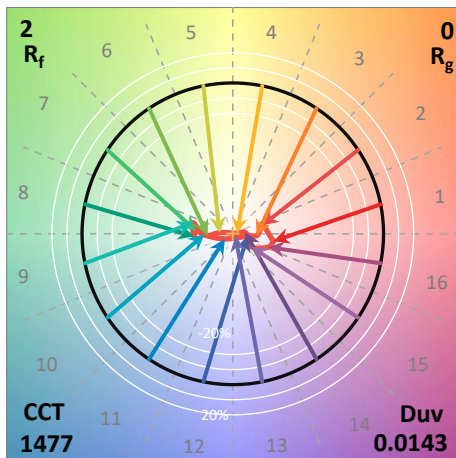
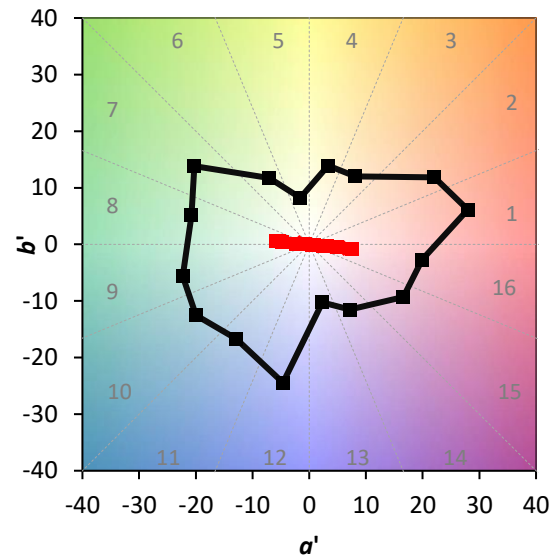
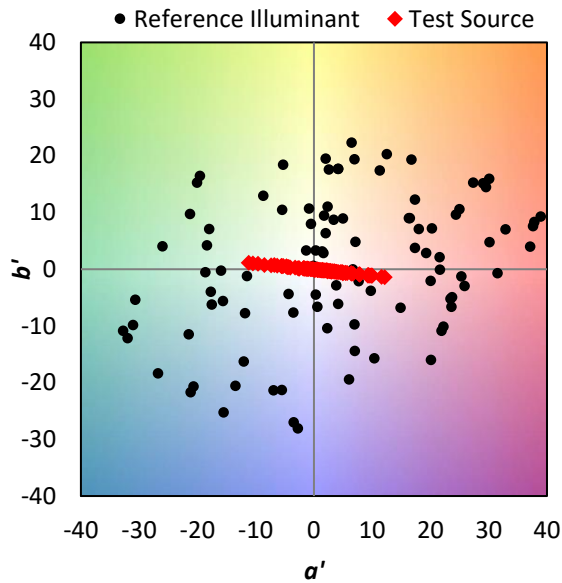
TM-30-18

Summary

$R_f = 1.7$
 $R_g = 0.1$
 $CIE\ R_a = -16.4$
 $R_g = -362.0$

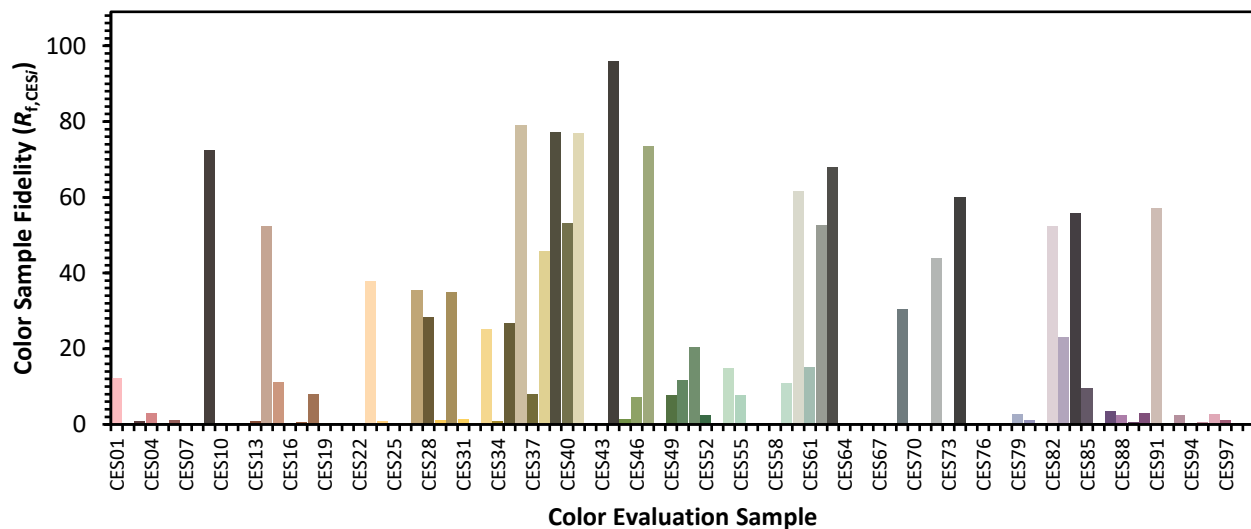


Color Vector Graphics

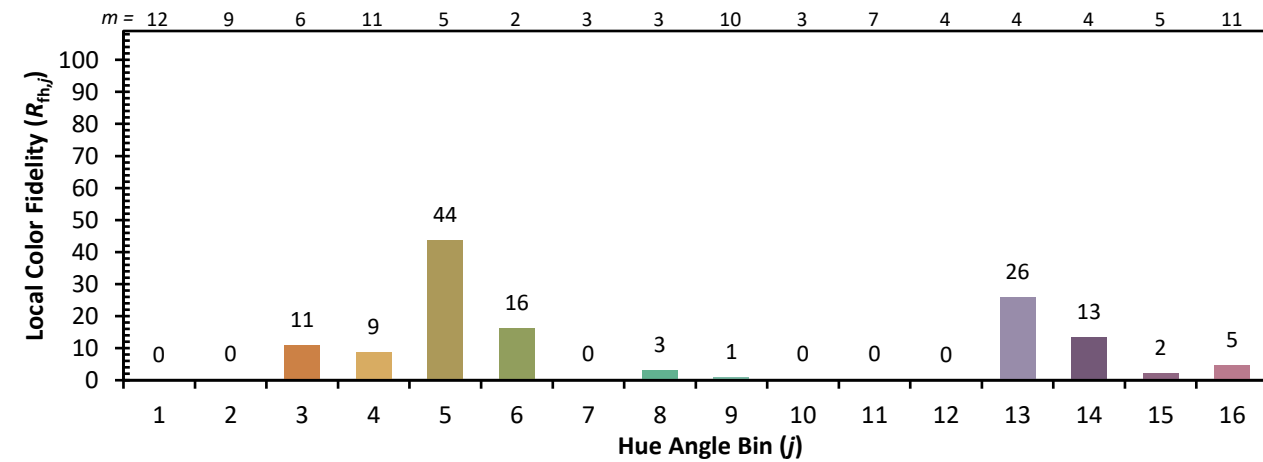
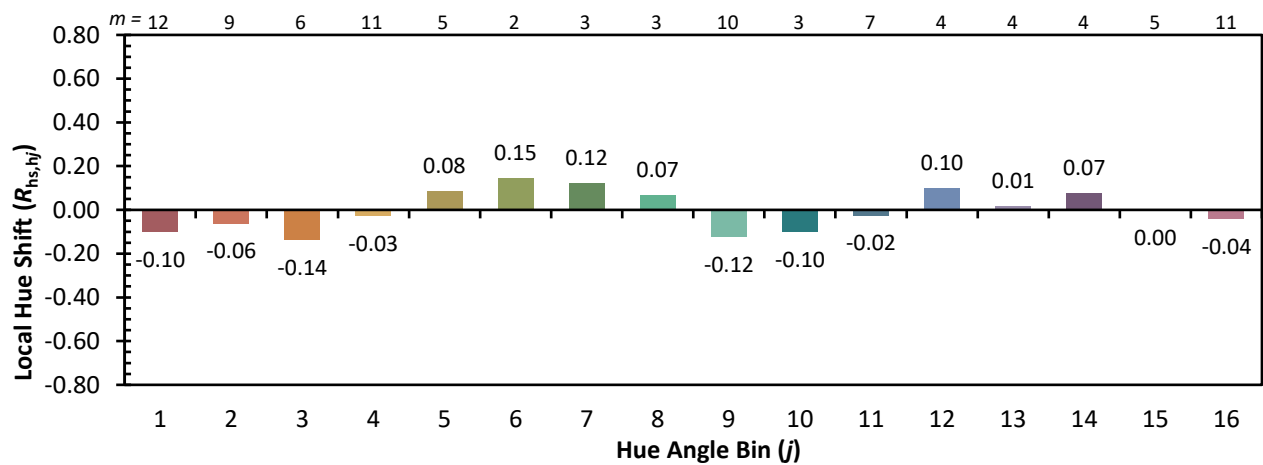
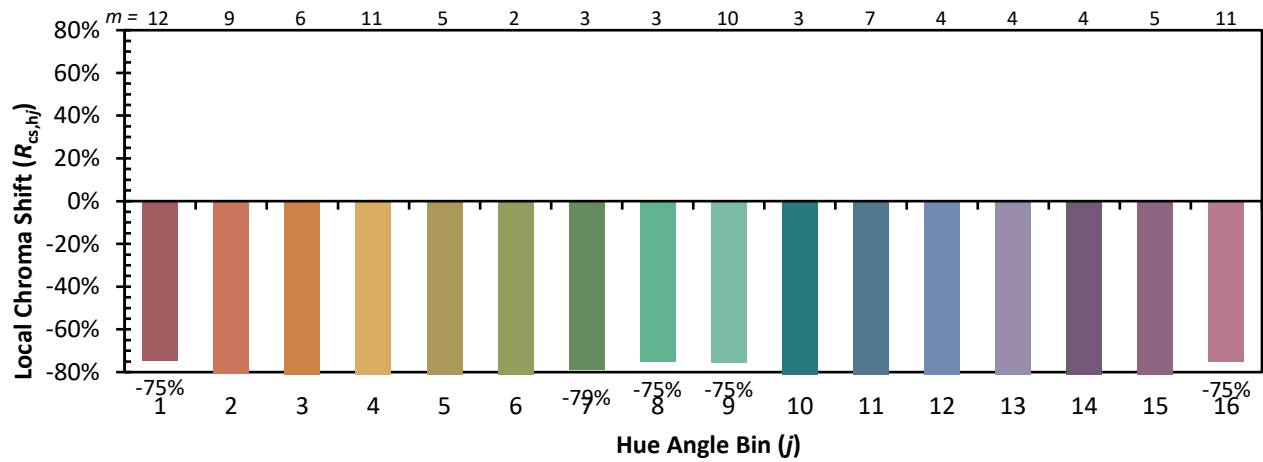


Individual Sample Fidelity Index ($R_{f,i}$)

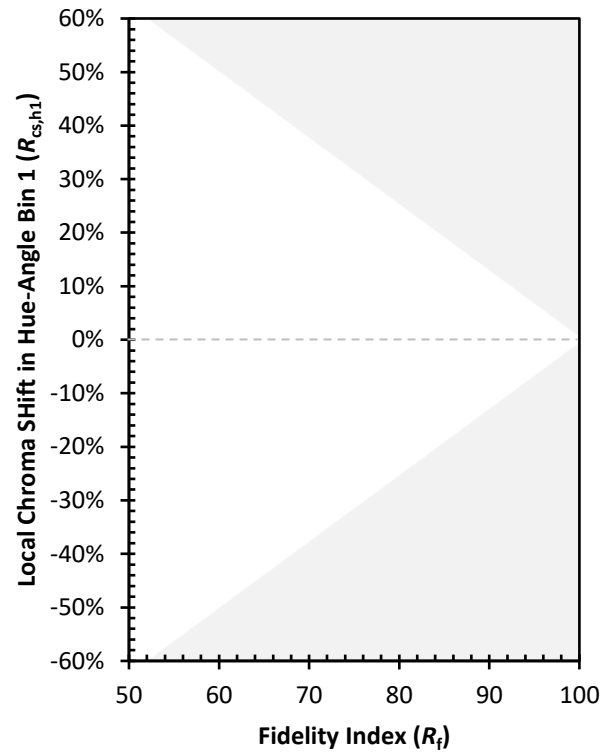
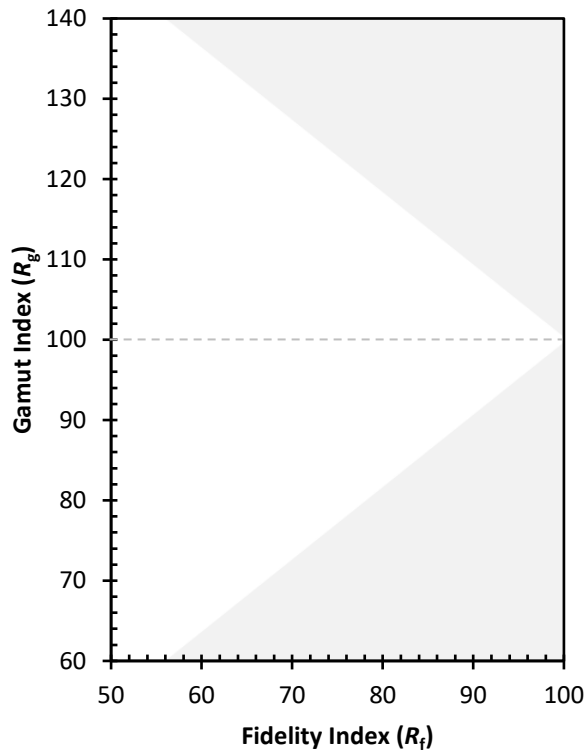
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 = 39	CES33 = 25	CES58 = 0	CES83 = 23
CES09 = 30	CES34 = 1	CES59 = 11	CES84 = 56
CES10 = 88	CES35 = 27	CES60 = 62	CES85 = 10
CES11 = 70	CES36 = 79	CES61 = 15	CES86 = 0
CES12 = 76	CES37 = 8	CES62 = 53	CES87 = 4
CES13 = 48	CES38 = 46	CES63 = 68	CES88 = 2
CES14 = 77	CES39 = 77	CES64 = 0	CES89 = 0
CES15 = 75	CES40 = 53	CES65 = 0	CES90 = 3
CES16 = 50	CES41 = 77	CES66 = 0	CES91 = 57
CES17 = 56	CES42 = 0	CES67 = 0	CES92 = 0
CES18 = 60	CES43 = 0	CES68 = 0	CES93 = 3
CES19 = 80	CES44 = 96	CES69 = 30	CES94 = 0
CES20 = 72	CES45 = 2	CES70 = 0	CES95 = 0
CES21 = 94	CES46 = 7	CES71 = 0	CES96 = 3
CES22 = 87	CES47 = 73	CES72 = 44	CES97 = 1
CES23 = 94	CES48 = 0	CES73 = 0	CES98 = 0
CES24 = 95	CES49 = 8	CES74 = 60	CES99 = 0
CES25 = 79	CES50 = 12	CES75 = 0	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)