

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: P1175328

Luminaire Tested: **FFX-CLB-40-AMB-U-VM8-T5-HSS**

Issue Date: 08/12/2025

Test Information

Test Method: LM-79-08
Report Number: P1175328
Test Lab: INNOVATION CENTER(G2)
Issue Date: 08/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-40-AMB-U-VM8-T5-HSS
Description: FAIRFAX POST TOP FIXTURE w/ ULA ACORN 8 INCH NECK AND HOUSE SIDE SHIELD
Light Source: (6) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 704 lumens
Efficiency: N/A
Efficacy: 16.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.08')
IES Classification: Type IV - Short
BUG Rating: B0 - U3 - G1

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



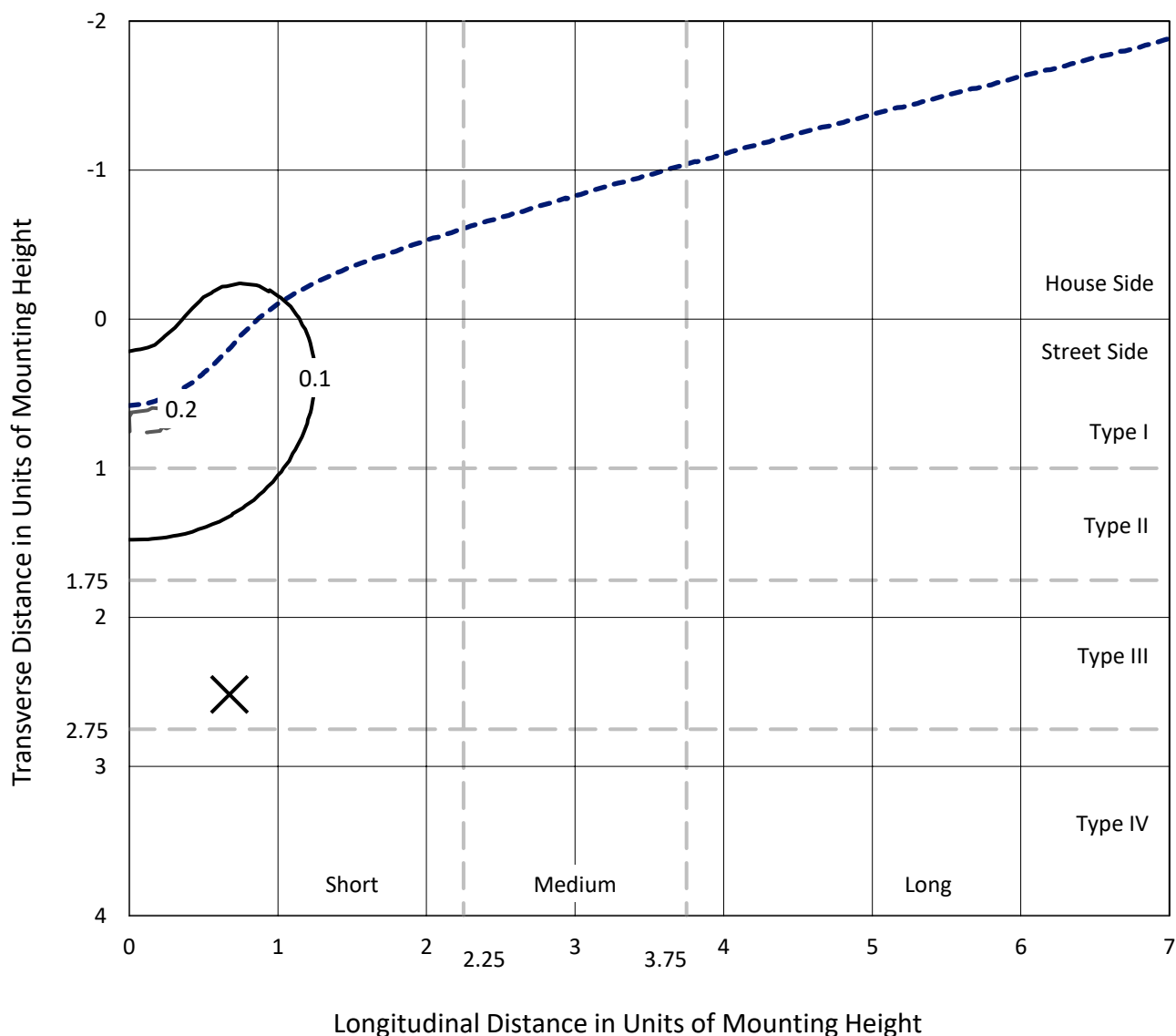
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

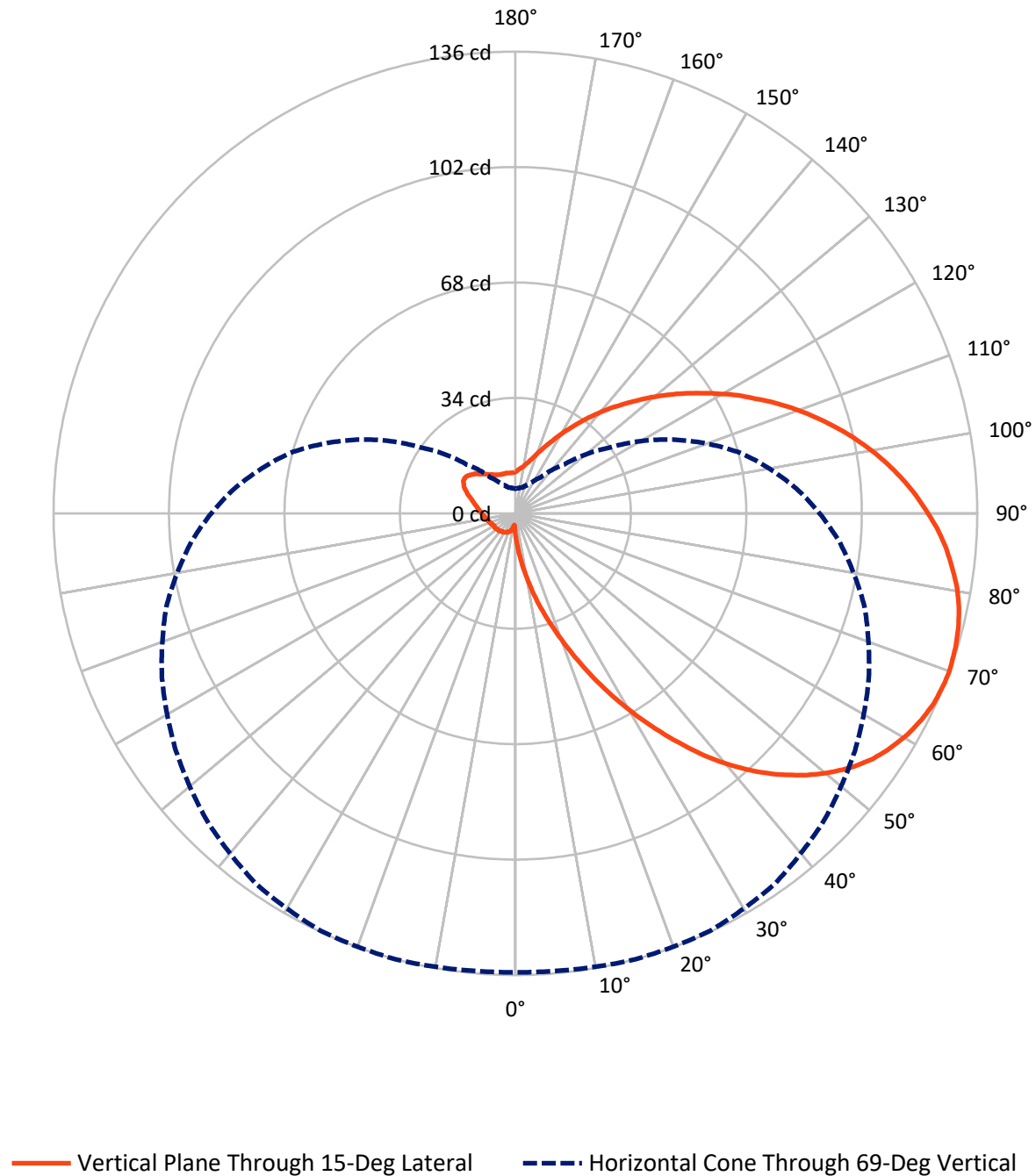


Based on 15 foot mounting height. Maximum calculated value = 0.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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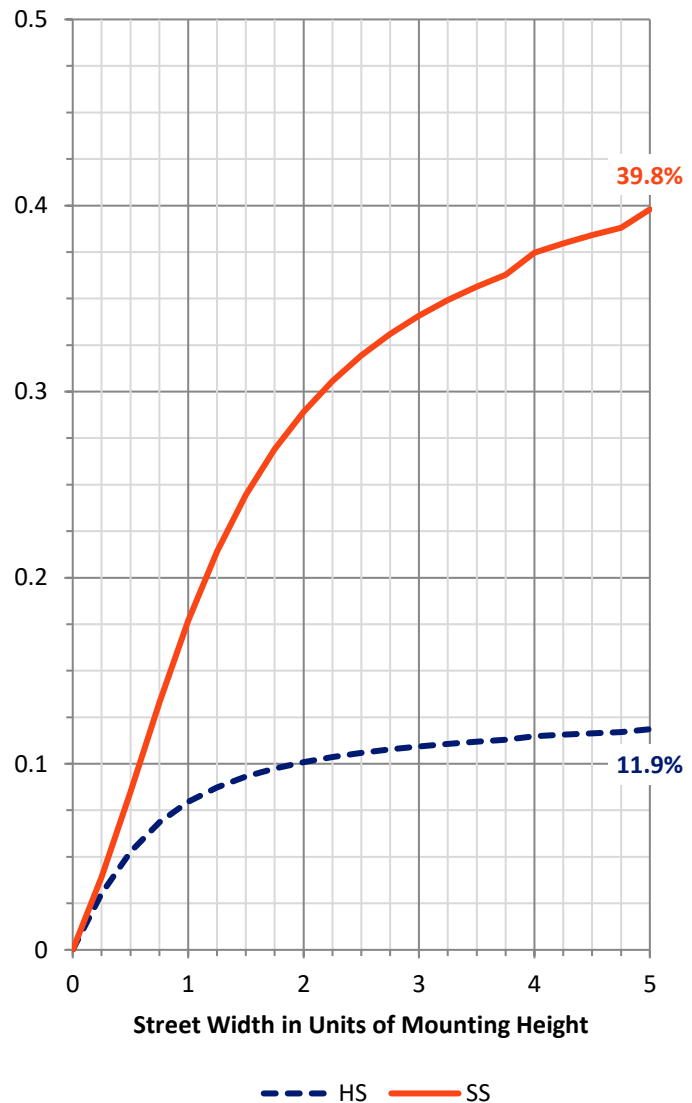
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	90.2	87.6	177.8
	% Fixture	12.8	12.4	25.3
Street Side	Lumens	319.6	206.6	526.1
	% Fixture	45.4	29.3	74.7
Total	Lumens	409.8	294.2	704.0
	% Fixture	58.2	41.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.1
10°-20°	5.5	0.8
20°-30°	15.6	2.2
30°-40°	31.7	4.5
40°-50°	50.2	7.1
50°-60°	66.2	9.4
60°-70°	76.9	10.9
70°-80°	81.9	11.6
80°-90°	81.0	11.5
90°-100°	74.8	10.6
100°-110°	65.3	9.3
110°-120°	54.0	7.7
120°-130°	41.3	5.9
130°-140°	27.9	4.0
140°-150°	16.6	2.4
150°-160°	8.8	1.2
160°-170°	4.1	0.6
170°-180°	1.2	0.2
0°-90°	409.8	58.2
0°-180°	704.0	100.0



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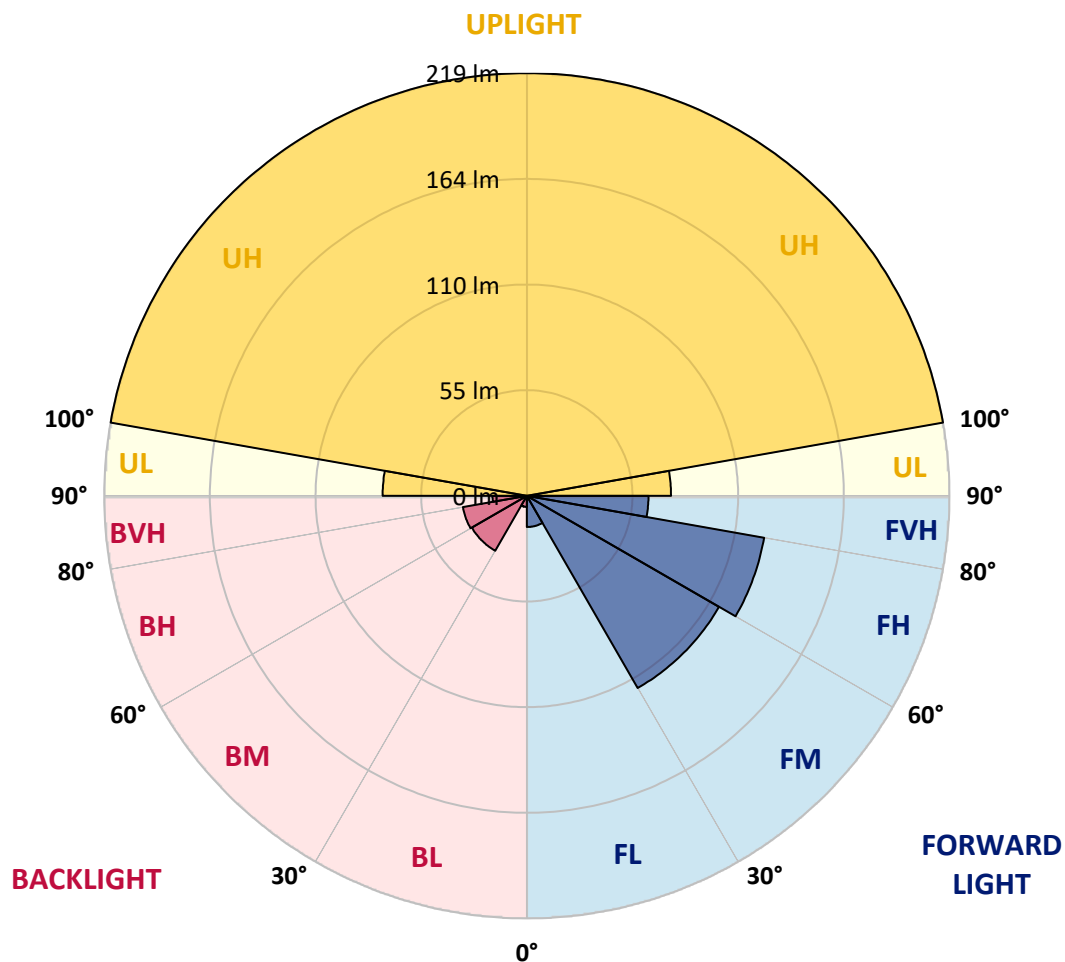
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	16.2	2.3			
FM	(30°-60°)	115.2	16.4			
FH	(60°-80°)	125.1	17.8			G0/660
FVH	(80°-90°)	63.1	9.0			G1/100
BL	(0°-30°)	5.8	0.8	B0/110		
BM	(30°-60°)	32.9	4.7	B0/220		
BH	(60°-80°)	33.7	4.8	B0/110		G0/110
BVH	(80°-90°)	17.8	2.5			G1/100
UL	(90°-100°)	74.8	10.6		U3/500	
UH	(100°-180°)	219.3	31.2		U3/500	

BUG Rating: B0-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
2.5°	9.1	9.0	9.0	8.9	8.7	8.4	8.0	7.6	7.2	6.8	6.8
5°	12.3	12.2	12.1	12.0	11.5	10.9	10.2	9.7	9.0	8.2	7.9
7.5°	15.9	16.1	15.9	15.6	14.8	14.2	13.4	12.6	11.6	10.7	10.1
10°	20.0	20.0	20.0	19.6	18.8	18.1	17.1	16.2	15.1	13.8	12.9
12.5°	24.6	24.8	24.7	24.3	23.6	22.7	21.6	20.4	18.9	17.4	16.3
15°	29.7	30.0	29.8	29.5	28.8	27.8	26.6	25.2	23.3	21.4	19.9
17.5°	35.0	35.0	35.0	34.7	33.9	32.8	31.4	29.7	27.5	25.2	23.6
20°	40.7	40.7	40.7	40.4	39.4	38.5	36.8	34.8	32.2	29.4	27.4
22.5°	47.0	47.3	47.1	46.7	45.9	44.7	42.8	40.4	37.2	34.2	31.9
25°	53.7	53.8	53.9	53.6	52.8	51.4	49.3	46.7	42.9	39.4	36.8
27.5°	60.8	60.9	61.0	61.1	59.9	58.5	56.1	53.2	49.0	44.8	41.8
30°	67.9	68.1	68.3	68.5	67.3	65.7	63.2	59.9	55.2	50.4	47.0
32.5°	75.2	75.4	75.7	75.6	74.8	72.7	70.3	66.6	61.3	56.0	52.2
35°	82.6	82.7	83.1	83.1	82.2	80.1	77.4	72.9	67.4	61.4	57.3
37.5°	89.8	89.9	90.8	90.5	89.5	87.2	84.2	79.5	73.5	66.7	62.3
40°	96.7	96.9	97.7	97.5	96.5	93.9	90.5	85.4	78.9	71.6	66.7
42.5°	103.1	103.3	104.2	104.0	102.9	100.2	96.4	90.9	84.0	76.0	70.9
45°	109.0	109.2	110.0	110.1	108.7	105.7	101.6	95.7	88.5	79.8	74.5
47.5°	114.5	114.6	115.4	115.5	113.9	110.7	106.2	100.0	92.4	83.0	77.6
50°	119.1	119.3	120.2	120.2	118.5	114.9	110.0	103.6	95.7	86.0	80.3
52.5°	123.4	123.7	124.4	124.5	122.6	118.8	113.4	106.8	98.7	88.6	82.7
55°	126.8	127.1	127.9	127.9	125.8	121.6	116.1	109.3	101.0	90.5	84.5
57.5°	129.6	129.8	130.5	130.6	128.3	124.0	118.2	111.1	102.8	92.2	86.1
60°	131.8	132.0	132.7	132.6	130.3	125.7	119.8	112.6	104.2	93.4	87.3
62.5°	133.5	133.6	134.3	134.1	131.6	126.9	120.8	113.6	105.1	94.3	88.2
65°	134.7	134.9	135.5	135.3	132.8	128.1	121.8	114.7	106.1	95.2	89.0
67.5°	135.0	135.4	136.0	135.7	133.2	128.4	122.0	114.8	106.4	95.6	89.5
69°	135.4	135.5	136.2	135.9	133.4	128.5	122.2	115.0	106.6	95.9	89.7
70°	135.1	135.4	136.1	135.8	133.2	128.4	122.0	114.9	106.5	95.8	89.7
72.5°	134.9	135.1	135.7	135.5	132.9	128.1	121.7	114.6	106.4	95.9	89.9
75°	134.2	134.3	134.9	134.6	132.1	127.2	121.0	114.0	106.0	95.6	89.7
77.5°	133.1	133.2	133.7	133.4	130.8	126.3	120.0	113.2	105.4	95.3	89.5
80°	131.4	131.7	132.0	131.6	129.3	124.7	118.7	112.0	104.5	94.7	89.0
82.5°	129.2	129.4	129.7	129.4	127.2	122.8	116.8	110.5	103.0	93.7	88.1
85°	126.8	127.1	127.3	126.9	124.8	120.6	114.8	108.7	101.6	92.6	87.2
87.5°	124.2	124.4	124.4	123.8	122.2	118.2	112.8	106.8	100.3	91.4	86.3
90°	120.9	121.1	121.0	120.4	119.0	115.2	110.1	104.5	98.2	90.0	85.0
92.5°	117.6	117.8	117.6	117.0	115.8	112.3	107.4	102.3	96.4	88.4	83.6
95°	113.9	114.2	113.9	113.2	111.9	109.0	104.4	99.8	94.2	86.7	82.1
97.5°	110.0	110.3	110.0	109.3	108.1	105.5	101.3	97.0	92.0	85.0	80.6
100°	106.0	106.3	105.8	105.1	104.2	101.9	98.2	94.3	89.6	83.1	78.9
102.5°	102.3	102.1	101.5	101.0	100.0	98.0	95.0	91.4	87.2	81.1	77.1
105°	97.7	97.7	97.0	96.5	95.8	93.9	91.6	88.2	84.4	78.9	75.2
107.5°	93.3	93.2	92.5	92.0	91.3	90.0	88.0	85.1	81.7	76.5	73.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	88.6	88.6	87.9	87.3	86.8	85.9	84.2	81.8	79.1	74.4	71.3
112.5°	84.1	84.0	83.3	82.8	82.5	81.9	80.5	78.6	76.4	72.0	69.1
115°	79.4	79.3	78.5	78.1	77.9	77.5	76.5	75.3	73.3	69.5	66.8
117.5°	75.1	75.1	74.2	73.8	73.6	73.5	72.8	72.0	70.4	67.2	64.5
120°	70.4	70.3	69.5	69.1	69.0	68.9	68.7	68.3	67.2	64.2	61.9
122.5°	66.0	65.7	65.1	64.8	64.9	64.8	65.0	64.7	63.9	61.2	59.2
125°	61.5	61.3	60.9	60.4	60.6	61.0	61.1	61.0	60.2	58.0	56.2
127.5°	57.2	57.1	56.7	56.2	56.5	57.0	57.2	57.2	56.5	54.7	52.9
130°	53.2	53.1	52.7	52.2	52.6	53.1	53.4	53.4	53.0	51.1	49.5
132.5°	49.2	49.1	48.7	48.4	48.7	49.3	49.7	49.7	49.1	47.6	46.1
135°	45.7	45.5	45.0	44.8	45.2	45.8	46.0	46.3	45.6	44.1	42.8
137.5°	41.8	41.8	41.6	41.2	41.5	42.1	42.5	42.5	41.7	40.5	39.3
140°	38.6	38.5	38.2	37.8	38.3	38.6	39.0	39.2	38.4	37.1	36.1
142.5°	35.4	35.2	35.0	34.8	35.0	35.5	35.7	35.8	35.1	34.0	33.0
145°	32.3	32.1	31.9	31.7	32.0	32.4	32.4	32.4	31.9	30.8	29.9
147.5°	29.3	29.2	29.1	29.0	29.1	29.5	29.6	29.6	28.9	28.0	27.2
150°	26.8	26.6	26.5	26.4	26.6	26.9	26.8	26.8	26.1	25.4	24.6
152.5°	24.2	24.2	24.0	24.0	24.2	24.4	24.3	24.1	23.5	22.9	22.4
155°	22.0	22.0	21.9	21.7	21.9	22.2	22.0	21.9	21.3	20.8	20.2
157.5°	20.0	20.1	20.0	19.9	20.0	20.0	19.9	19.8	19.3	18.8	18.4
160°	18.4	18.4	18.4	18.3	18.3	18.3	18.3	18.0	17.7	17.2	16.9
162.5°	17.1	16.9	16.9	16.8	16.9	16.9	16.8	16.6	16.3	15.9	15.6
165°	15.8	15.8	15.7	15.7	15.8	15.8	15.6	15.4	15.2	14.9	14.6
167.5°	14.8	14.9	14.9	14.8	14.8	14.8	14.7	14.4	14.3	14.0	13.8
170°	14.0	14.1	13.9	14.0	13.9	13.8	13.8	13.7	13.4	13.2	13.1
172.5°	13.5	13.5	13.5	13.4	13.3	13.3	13.2	13.0	12.9	12.8	12.6
175°	13.0	13.0	13.0	12.9	12.9	12.8	12.7	12.7	12.5	12.3	12.3
177.5°	12.7	12.5	12.5	12.5	12.5	12.4	12.4	12.3	12.2	12.1	12.0
180°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
2.5°	6.5	6.2	5.8	5.4	5.2	4.9	4.6	4.5	4.3	4.4
5°	7.5	6.8	6.0	5.4	4.8	4.3	3.8	3.4	3.2	3.2
7.5°	9.6	8.6	7.6	6.6	5.7	4.9	4.1	3.8	3.5	3.4
10°	12.2	10.8	9.4	8.1	6.9	5.7	5.0	4.4	4.1	4.1
12.5°	15.3	13.4	11.6	9.8	8.1	6.7	5.6	4.9	4.6	4.6
15°	18.7	16.4	13.9	11.6	9.5	7.7	6.3	5.3	4.9	4.8
17.5°	22.2	19.2	16.1	13.4	10.7	8.5	6.7	5.6	5.0	5.0
20°	25.7	22.2	18.5	15.1	11.9	9.2	7.1	5.7	5.0	5.0
22.5°	29.9	25.6	21.1	17.1	13.2	9.9	7.6	6.0	5.3	5.1
25°	34.3	29.3	24.0	19.0	14.5	10.6	8.0	6.2	5.4	5.3
27.5°	39.0	33.1	26.9	21.0	15.7	11.2	8.3	6.3	5.5	5.4
30°	43.9	37.0	29.9	23.0	16.8	11.9	8.5	6.4	5.5	5.4
32.5°	48.6	40.9	32.7	24.9	17.8	12.4	8.7	6.6	5.5	5.4
35°	53.3	44.7	35.6	26.7	18.7	12.7	8.8	6.6	5.6	5.5
37.5°	57.7	48.4	38.2	28.3	19.6	13.1	9.0	6.7	5.7	5.7
40°	61.9	51.8	40.6	29.7	20.4	13.4	9.2	6.8	5.9	5.7
42.5°	65.7	54.8	42.8	31.0	20.9	13.6	9.3	7.0	6.0	5.9
45°	69.0	57.5	44.6	31.9	21.1	13.7	9.3	7.0	6.1	5.9
47.5°	72.0	59.8	46.1	32.7	21.4	13.7	9.3	7.1	6.1	6.0
50°	74.4	61.7	47.4	33.2	21.4	13.5	9.2	7.1	6.2	6.1
52.5°	76.6	63.5	48.6	33.7	21.5	13.6	9.4	7.3	6.5	6.3
55°	78.3	64.9	49.4	33.9	21.4	13.5	9.3	7.3	6.5	6.5
57.5°	79.8	65.9	50.0	34.0	21.2	13.3	9.2	7.4	6.6	6.6
60°	80.7	66.9	50.6	34.0	21.0	13.1	9.2	7.3	6.7	6.5
62.5°	81.6	67.4	50.8	33.9	20.7	13.0	9.1	7.4	6.8	6.7
65°	82.6	68.2	51.2	34.0	20.7	13.0	9.3	7.7	7.0	6.9
67.5°	83.0	68.5	51.3	33.8	20.4	12.8	9.3	7.7	7.1	7.1
69°	83.2	68.8	51.4	33.7	20.4	12.9	9.4	7.9	7.4	7.3
70°	83.3	68.7	51.3	33.6	20.2	12.8	9.4	7.8	7.3	7.1
72.5°	83.5	69.0	51.3	33.5	20.2	12.9	9.5	8.1	7.6	7.4
75°	83.5	69.0	51.2	33.2	20.0	12.9	9.7	8.3	7.8	7.7
77.5°	83.3	69.0	51.1	33.1	20.0	13.0	9.9	8.5	8.1	7.9
80°	82.9	68.6	50.8	32.9	20.0	13.1	10.1	8.9	8.3	8.2
82.5°	82.3	68.1	50.3	32.6	19.7	13.1	10.2	8.9	8.5	8.5
85°	81.4	67.5	49.9	32.3	19.8	13.3	10.4	9.2	8.7	8.7
87.5°	80.7	66.9	49.5	32.1	19.9	13.6	10.8	9.6	9.1	9.1
90°	79.5	66.0	48.9	31.9	19.9	13.7	11.0	9.8	9.3	9.2
92.5°	78.4	65.2	48.5	31.7	20.0	14.1	11.4	10.3	9.8	9.6
95°	77.1	64.3	47.9	31.6	20.2	14.3	11.8	10.6	10.1	10.0
97.5°	75.7	63.3	47.4	31.6	20.5	14.8	12.2	11.1	10.5	10.4
100°	74.3	62.3	46.9	31.5	20.9	15.3	12.7	11.5	11.0	11.0
102.5°	72.8	61.2	46.5	31.8	21.5	15.9	13.4	12.1	11.6	11.5
105°	71.1	60.0	46.0	31.9	22.0	16.6	14.1	12.7	12.2	12.1
107.5°	69.3	59.0	45.6	32.2	22.7	17.4	14.8	13.4	12.8	12.8



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CATALOG NUMBER: FFX-CLB-40-AMB-U-VM8-T5-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	67.6	57.9	45.2	32.7	23.6	18.4	15.6	14.2	13.6	13.5
112.5°	65.9	56.7	45.0	33.3	24.6	19.4	16.6	15.2	14.5	14.4
115°	63.9	55.4	44.5	33.8	25.4	20.4	17.5	16.0	15.4	15.2
117.5°	61.9	54.1	44.3	34.4	26.6	21.5	18.6	17.0	16.2	16.1
120°	59.5	52.4	43.5	34.5	27.2	22.2	19.2	17.5	16.8	16.6
122.5°	57.1	50.5	42.7	34.5	27.6	22.9	19.8	18.1	17.3	17.1
125°	54.3	48.3	41.3	34.1	27.8	23.1	20.0	18.2	17.3	17.2
127.5°	51.4	46.0	39.7	33.3	27.5	23.0	20.0	18.1	17.1	17.1
130°	48.1	43.3	37.8	32.2	26.9	22.5	19.6	17.7	16.7	16.6
132.5°	44.8	40.6	35.7	30.8	25.9	21.8	19.0	17.1	16.1	16.1
135°	41.7	37.8	33.7	29.2	24.9	21.2	18.3	16.7	15.6	15.7
137.5°	38.2	34.9	31.4	27.4	23.4	20.0	17.5	15.8	14.9	14.9
140°	35.2	32.2	29.0	25.7	22.2	19.1	16.7	15.2	14.3	14.4
142.5°	32.3	29.6	26.9	24.0	20.9	18.1	16.0	14.7	14.0	13.8
145°	29.3	27.2	24.7	22.2	19.5	17.1	15.2	14.1	13.4	13.4
147.5°	26.7	24.8	22.6	20.6	18.3	16.3	14.7	13.6	13.0	13.1
150°	24.3	22.6	20.9	19.1	17.2	15.4	14.1	13.3	12.8	12.7
152.5°	22.0	20.5	19.2	17.7	16.0	14.7	13.5	12.8	12.5	12.5
155°	19.9	18.9	17.6	16.4	15.2	14.1	13.1	12.6	12.2	12.2
157.5°	18.2	17.3	16.3	15.4	14.4	13.5	12.9	12.4	12.1	12.1
160°	16.7	16.0	15.3	14.6	13.8	13.1	12.7	12.2	12.1	12.1
162.5°	15.5	14.9	14.3	13.9	13.3	12.8	12.4	12.2	12.0	12.0
165°	14.6	14.2	13.8	13.3	12.9	12.6	12.4	12.1	12.0	12.1
167.5°	13.8	13.5	13.2	12.9	12.7	12.4	12.2	12.2	12.1	12.0
170°	13.1	12.8	12.6	12.5	12.3	12.2	12.1	12.1	12.0	12.0
172.5°	12.7	12.5	12.4	12.3	12.2	12.1	12.1	12.0	12.0	12.0
175°	12.3	12.2	12.1	12.1	12.0	12.1	12.0	12.0	12.0	12.0
177.5°	12.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.1	12.1
180°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2

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

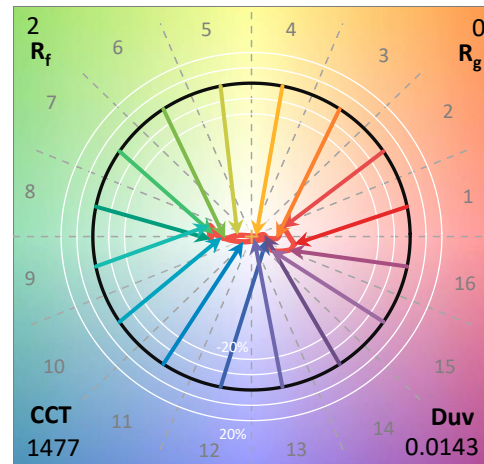
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

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

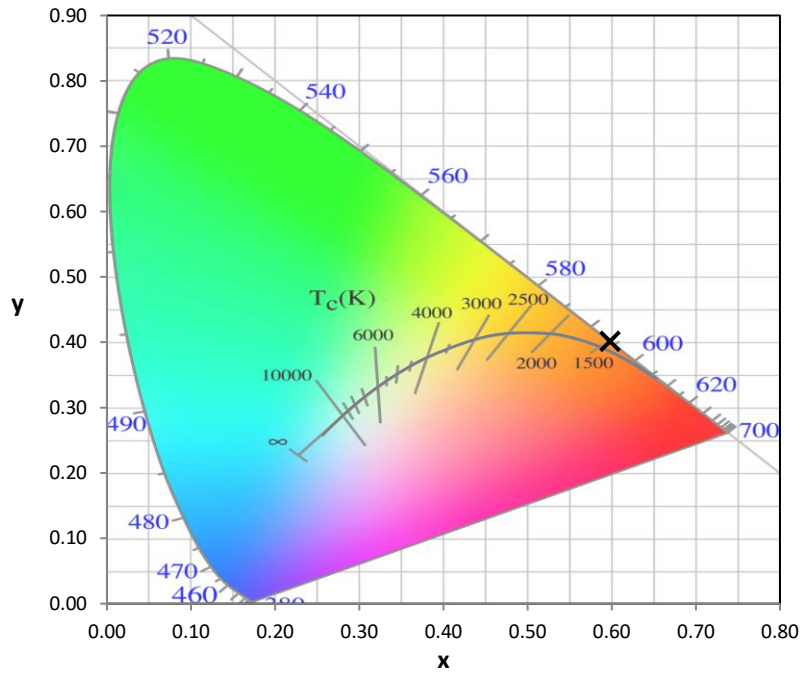
Stabilization Time: 152M
 Operation Time: 3H 32M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

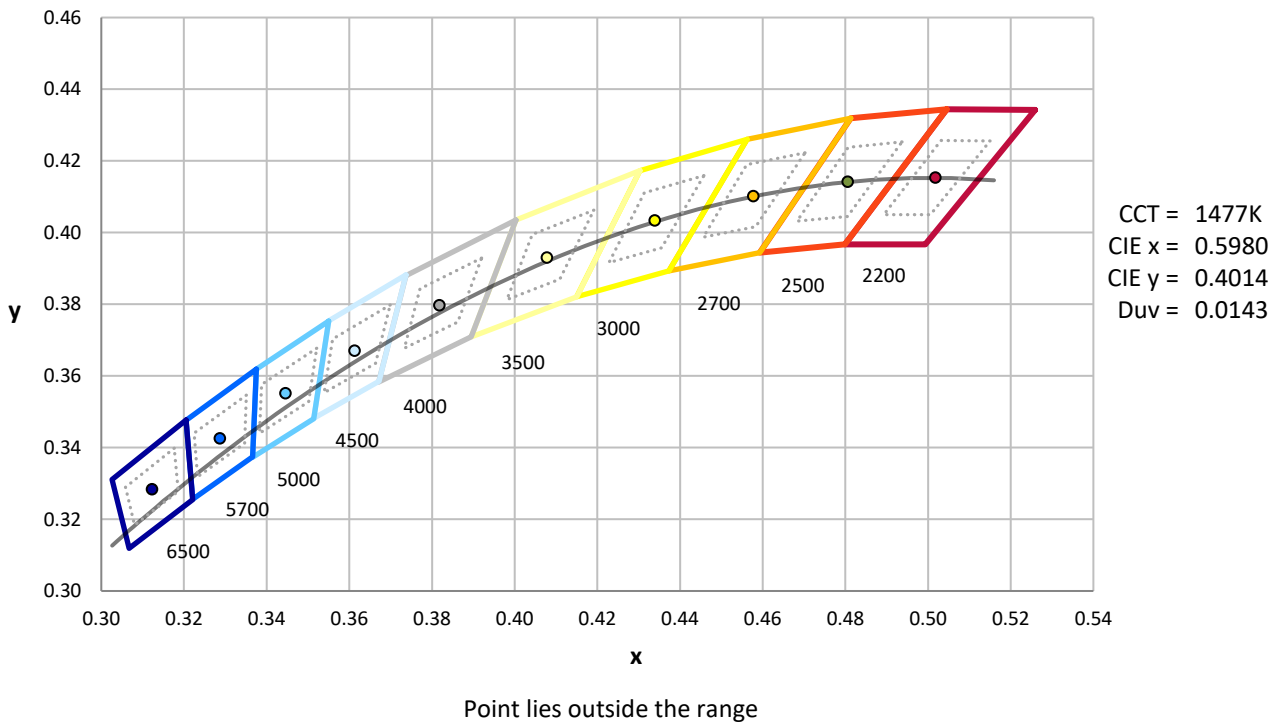
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

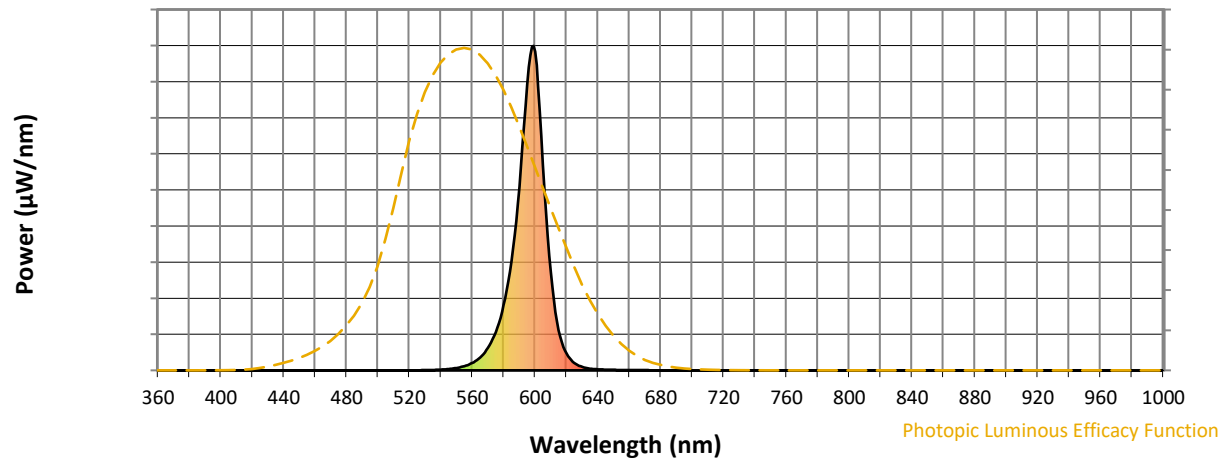


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

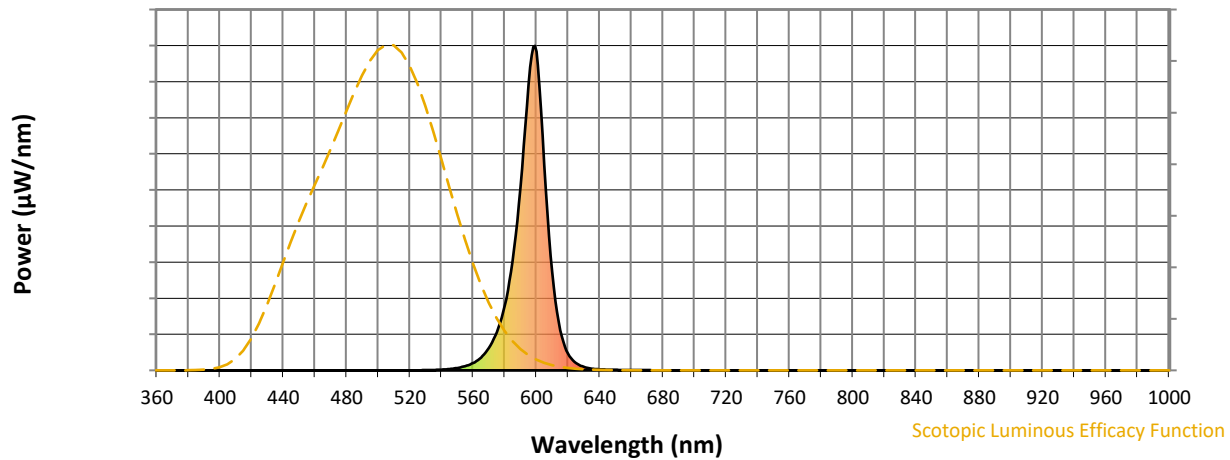


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	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



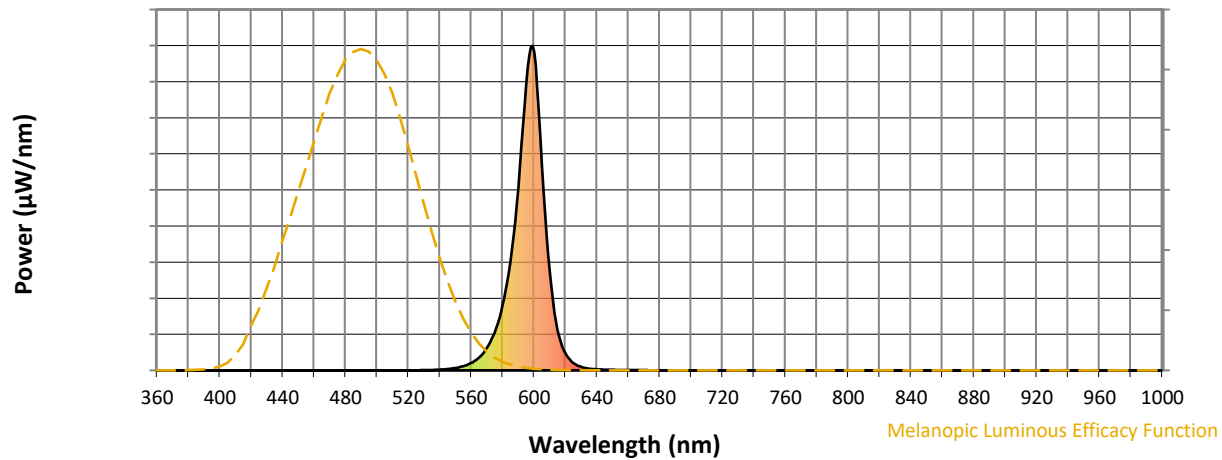
Scotopic Lumens: NR

S/P: 0.21

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

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.11

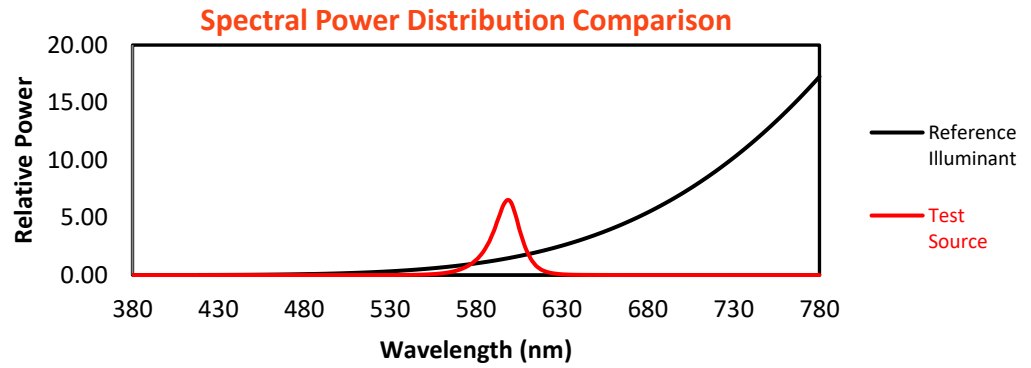
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	620	52	NR	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			

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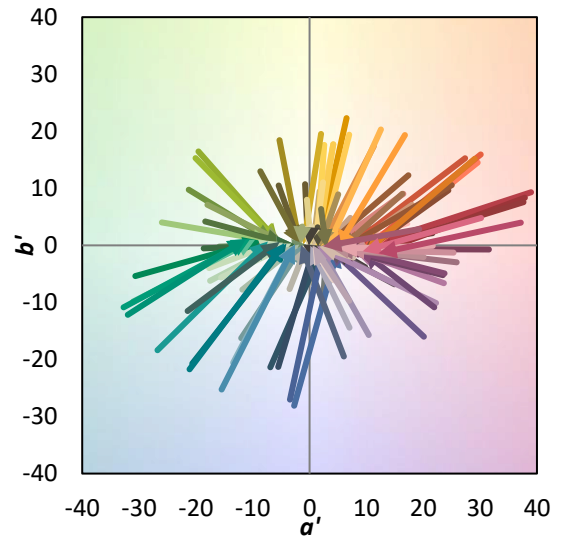
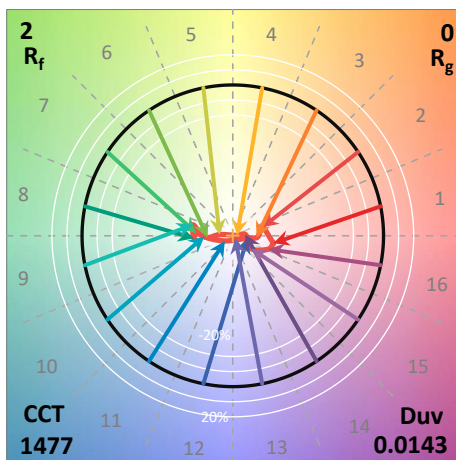
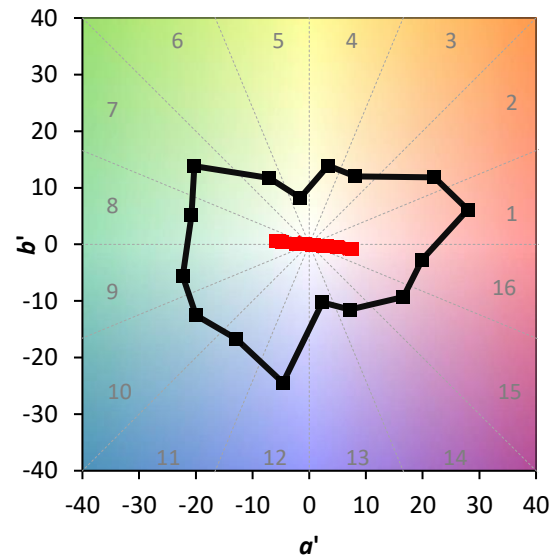
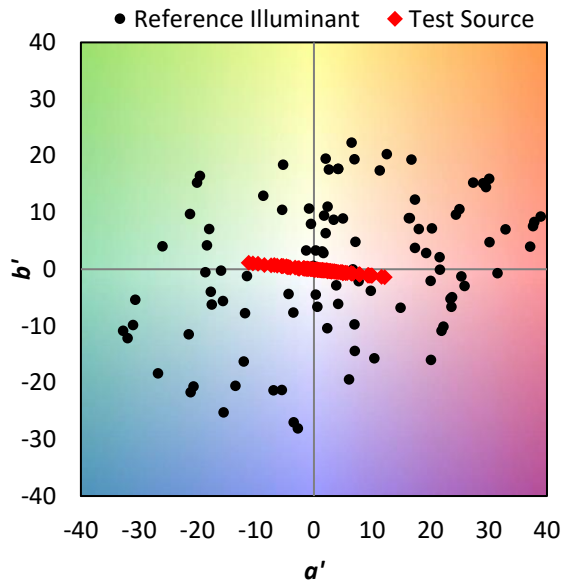
TM-30-18

Summary

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

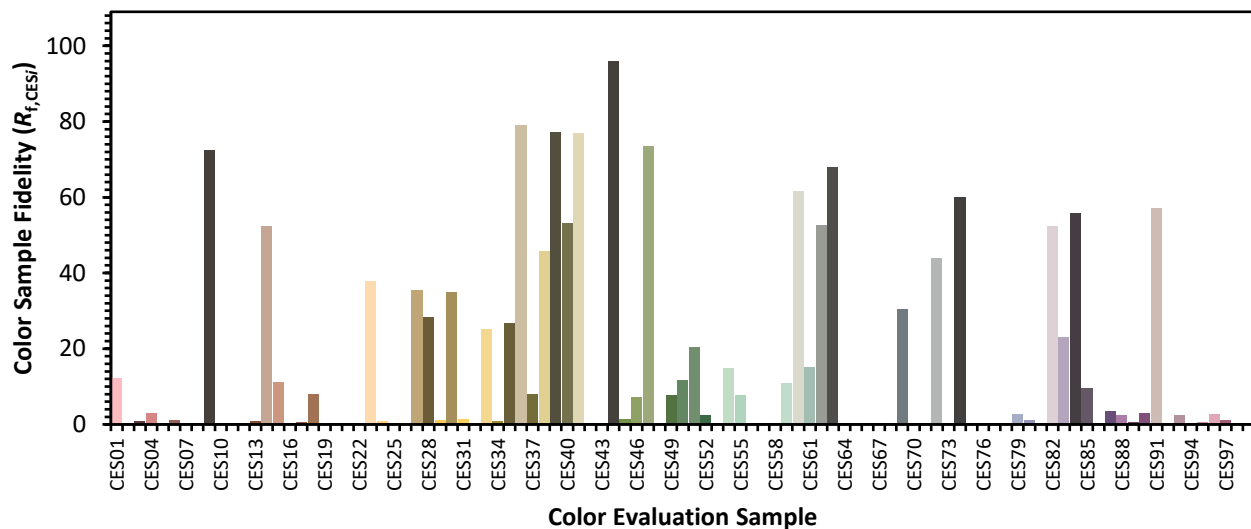


Color Vector Graphics

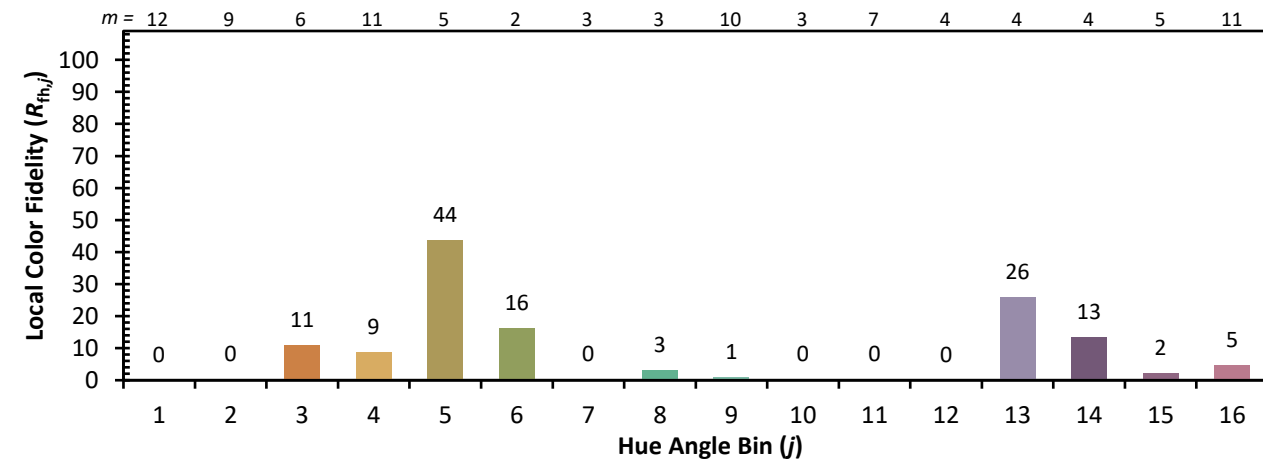
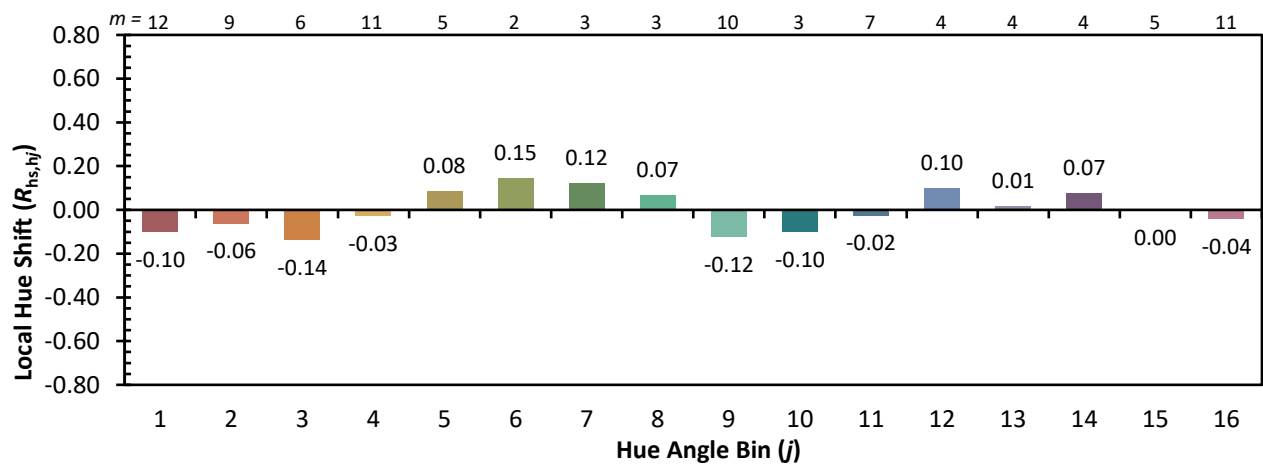
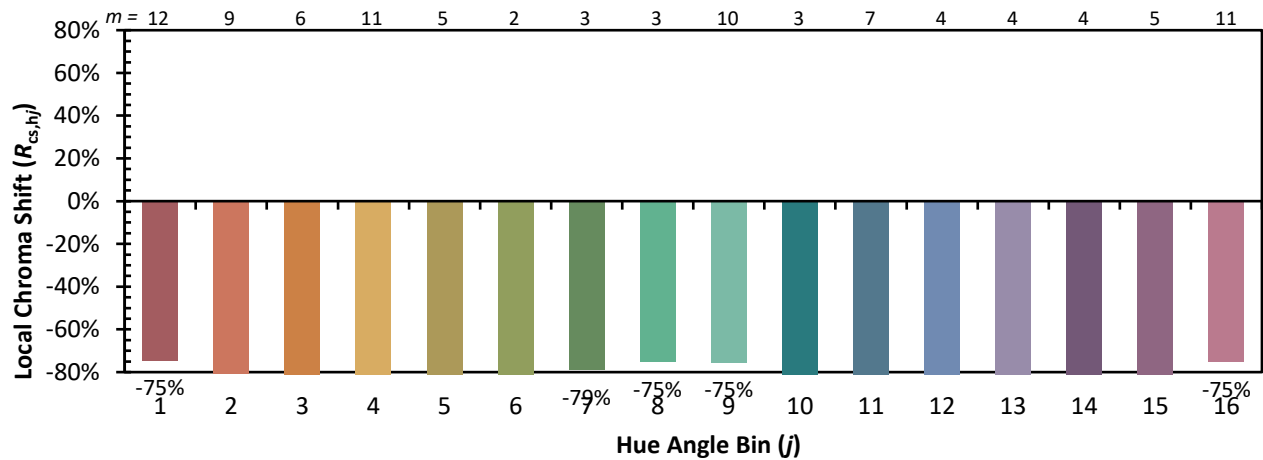


Individual Sample Fidelity Index ($R_{f,i}$)

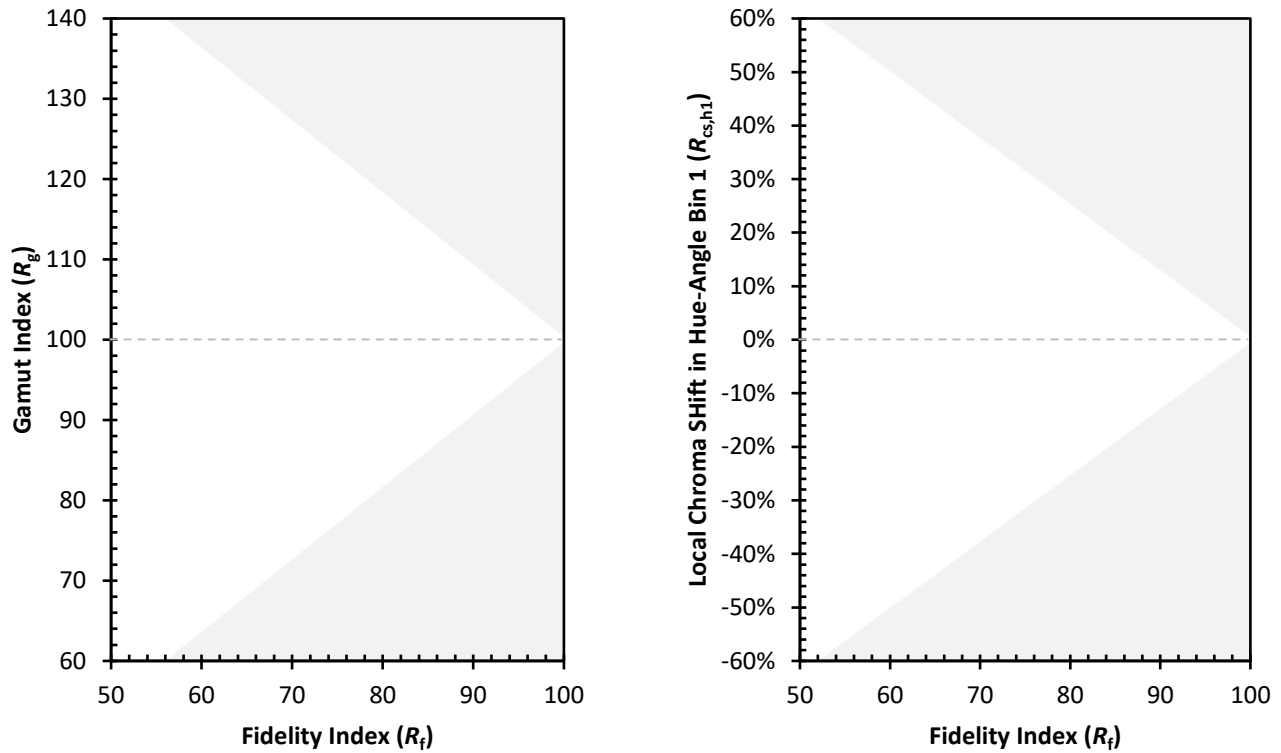
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 = 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	



REPORT NUMBER: SP1-2501-332-6

TM-30-18
Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)