

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: P1306577

Luminaire Tested: **FFX-CLB-30-AMB-U-VM9-T4**

Issue Date: 02/04/2026

Test Information

Test Method: LM-79-08
Report Number: P1306577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/04/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-AMB-U-VM9-T4
Description: FAIRFAX AMBER ULA 9 INCH LENS WITH TYPE IV DISTRIBUTION
Light Source: (4) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 731.5 lumens
Efficiency: N/A
Efficacy: 25.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.38' x H: 2.12')
IES Classification: Type IV - Short
BUG Rating: B0 - U3 - G1

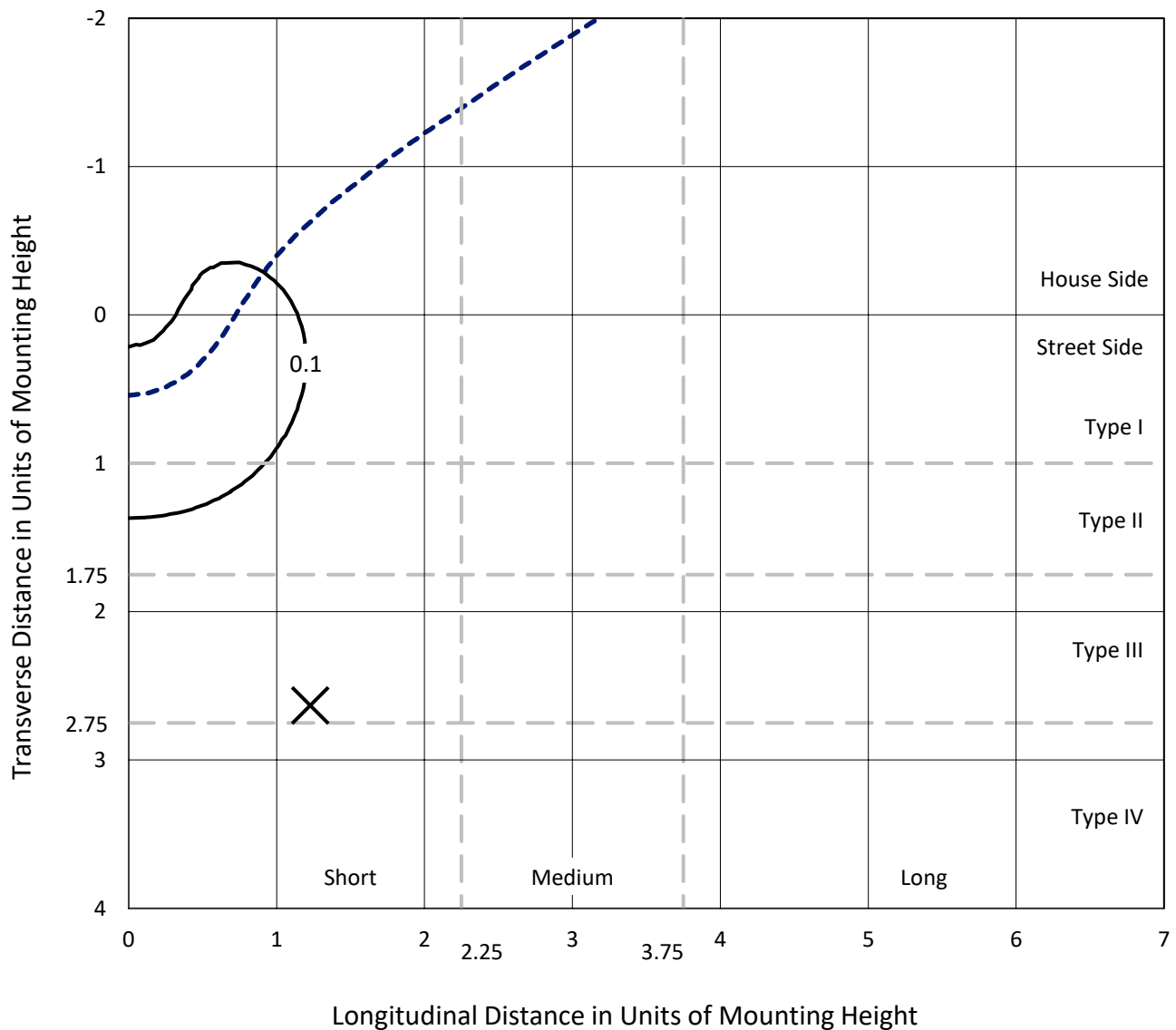
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

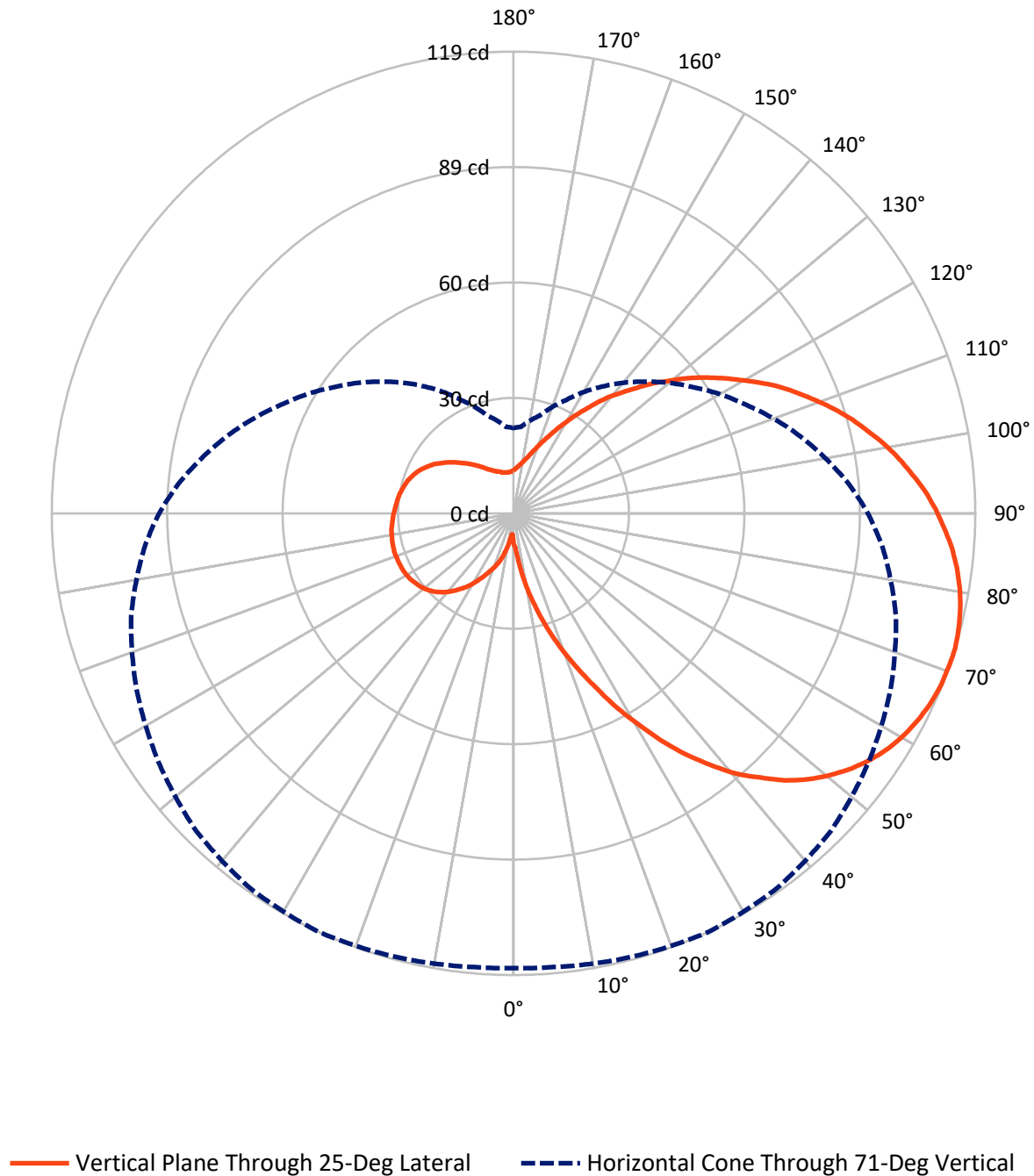
× Max cd
 --- 1/2 Max cd



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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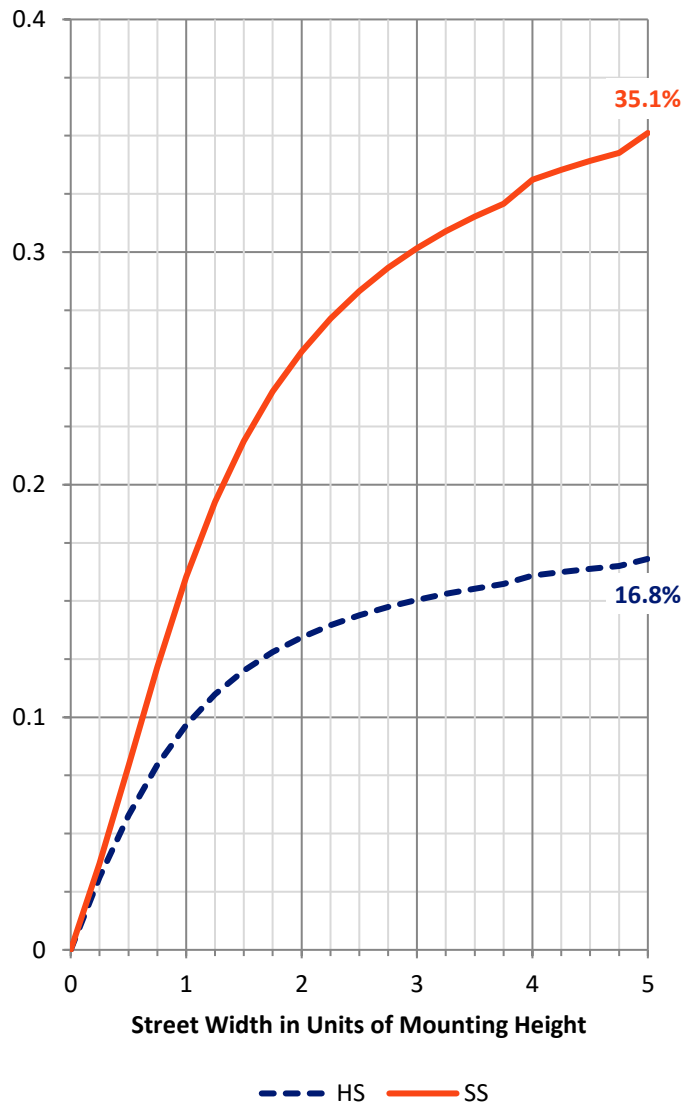
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	135.7	104.5	240.2
	% Fixture	18.5	14.3	32.8
Street Side	Lumens	292.8	198.5	491.3
	% Fixture	40.0	27.1	67.2
Total	Lumens	428.5	303.0	731.5
	% Fixture	58.6	41.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.1
10°-20°	6.2	0.8
20°-30°	16.9	2.3
30°-40°	33.4	4.6
40°-50°	52.1	7.1
50°-60°	68.2	9.3
60°-70°	79.6	10.9
70°-80°	85.6	11.7
80°-90°	85.4	11.7
90°-100°	79.7	10.9
100°-110°	69.7	9.5
110°-120°	56.3	7.7
120°-130°	41.2	5.6
130°-140°	27.0	3.7
140°-150°	15.9	2.2
150°-160°	8.3	1.1
160°-170°	3.8	0.5
170°-180°	1.1	0.1
0°-90°	428.5	58.6
0°-180°	731.5	100.0



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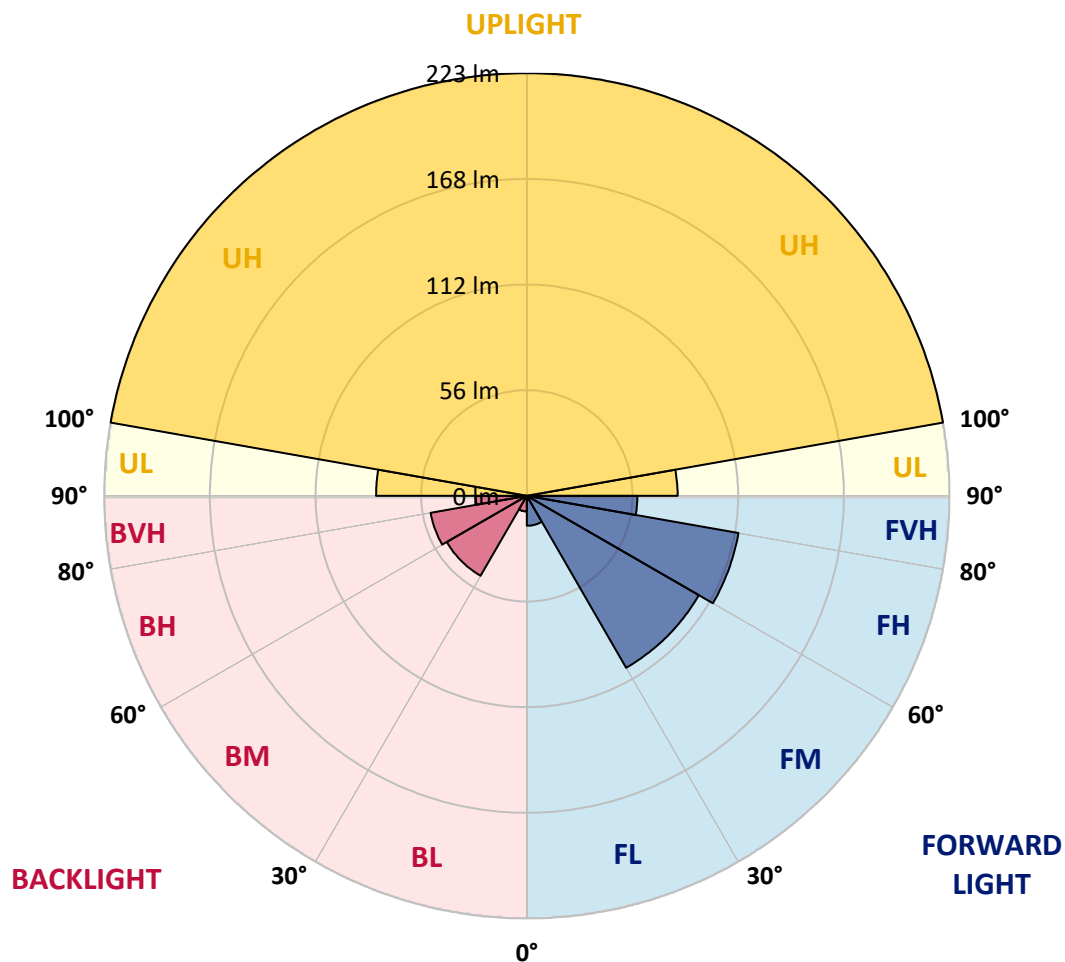
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	15.8	2.2			
FM	(30°-60°)	104.9	14.3			
FH	(60°-80°)	113.6	15.5			G0/660
FVH	(80°-90°)	58.4	8.0			G1/100
BL	(0°-30°)	8.3	1.1	B0/110		
BM	(30°-60°)	48.8	6.7	B0/220		
BH	(60°-80°)	51.6	7.1	B0/110		G0/110
BVH	(80°-90°)	27.0	3.7			G1/100
UL	(90°-100°)	79.7	10.9		U3/500	
UH	(100°-180°)	223.3	30.5		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°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	8.7	8.8	8.8	8.8	8.7	8.9	8.8	8.7	8.5	8.3	8.1
5°	11.7	11.8	11.8	11.7	11.6	11.3	11.0	10.6	10.1	9.5	9.1
7.5°	15.8	15.6	15.7	15.6	15.4	15.1	14.4	13.7	12.8	12.2	11.6
10°	20.2	20.2	20.0	20.0	19.3	19.0	18.2	17.3	16.4	15.3	14.9
12.5°	24.9	25.1	24.8	24.3	23.9	23.3	22.3	21.5	20.4	19.3	18.4
15°	29.6	29.6	29.4	29.1	28.7	27.8	27.0	25.9	24.6	23.0	22.1
17.5°	34.6	34.6	34.2	34.0	33.4	32.7	31.7	30.2	28.8	27.0	26.0
20°	39.6	39.4	39.3	39.1	38.4	37.8	36.6	35.2	33.2	31.2	30.0
22.5°	44.9	45.1	44.7	44.5	43.9	42.9	41.7	40.1	38.0	35.4	34.1
25°	51.0	51.0	50.7	50.1	49.8	48.9	47.2	45.3	43.1	40.4	38.8
27.5°	57.3	57.3	57.2	56.8	56.1	54.9	53.3	51.5	48.8	45.3	43.3
30°	63.7	63.7	63.3	62.9	62.8	61.2	59.3	57.1	54.1	50.7	48.7
32.5°	70.1	70.0	70.0	69.8	68.9	67.6	65.6	63.2	59.7	55.4	53.4
35°	76.1	76.3	76.4	76.3	75.3	74.0	71.6	68.9	65.1	60.5	58.1
37.5°	82.5	82.3	82.4	82.3	81.4	79.8	77.7	74.3	70.5	65.5	62.7
40°	88.2	88.4	88.3	88.3	87.4	85.7	83.0	79.6	75.1	69.8	67.0
42.5°	93.2	93.4	93.5	93.2	92.6	90.7	87.8	84.0	79.5	74.0	70.9
45°	97.7	97.9	98.1	98.3	97.6	95.5	92.3	88.3	83.5	77.7	74.3
47.5°	101.8	102.0	102.2	102.5	101.6	99.4	96.3	92.0	87.0	80.9	77.4
50°	105.3	105.3	106.0	106.1	105.3	103.1	99.6	95.2	90.0	83.7	80.1
52.5°	108.2	108.3	109.0	109.3	108.5	106.0	102.5	98.0	92.5	86.2	82.4
55°	110.7	110.7	111.5	112.0	111.1	108.6	104.9	100.2	94.8	88.3	84.4
57.5°	112.7	112.8	113.7	114.2	113.3	110.8	107.0	102.3	96.8	90.2	86.3
60°	114.1	114.3	115.2	115.9	115.1	112.5	108.7	103.8	98.2	91.7	87.7
62.5°	115.5	115.5	116.5	117.2	116.3	113.8	109.9	105.1	99.7	92.9	88.9
65°	116.4	116.5	117.5	118.2	117.3	114.7	110.8	106.1	100.6	93.9	90.0
67.5°	117.0	117.2	118.1	118.8	117.9	115.4	111.5	106.8	101.4	94.7	90.8
70°	117.2	117.4	118.3	119.0	118.1	115.6	111.8	107.2	101.9	95.2	91.2
71°	117.3	117.5	118.4	119.1	118.2	115.8	111.8	107.3	102.1	95.4	91.4
72.5°	117.4	117.6	118.5	119.1	118.2	115.7	111.9	107.5	102.2	95.7	91.5
75°	117.1	117.2	118.1	118.6	117.9	115.5	111.8	107.4	102.3	95.6	91.6
77.5°	116.4	116.5	117.3	117.8	117.1	114.8	111.2	107.1	102.0	95.4	91.4
80°	115.3	115.5	116.2	116.7	116.1	113.8	110.4	106.3	101.4	94.8	90.8
82.5°	113.9	114.0	114.8	115.2	114.5	112.5	109.2	105.3	100.5	94.1	90.0
85°	112.2	112.4	113.1	113.4	112.8	111.0	107.9	104.2	99.5	93.1	89.1
87.5°	110.2	110.3	110.9	111.2	110.8	109.0	106.2	102.9	98.3	91.8	88.0
90°	107.9	108.0	108.5	108.9	108.4	106.9	104.4	101.2	96.8	90.5	86.6
92.5°	105.5	105.6	105.9	106.4	105.8	104.5	102.2	99.4	95.2	89.0	85.1
95°	102.7	102.6	103.2	103.4	103.1	102.0	100.0	97.3	93.3	87.3	83.5
97.5°	99.9	99.8	100.1	100.5	100.1	99.2	97.6	95.2	91.3	85.5	81.9
100°	96.8	96.6	97.0	97.4	97.2	96.2	94.9	92.8	89.3	83.6	79.9
102.5°	93.1	93.1	93.7	93.9	93.7	93.1	92.0	90.1	86.7	81.3	77.9
105°	90.0	89.9	90.2	90.6	90.3	89.7	88.9	87.6	84.4	79.1	76.0
107.5°	86.3	86.2	86.7	87.0	86.9	86.4	85.8	84.7	81.7	76.7	73.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	82.4	82.6	82.9	83.2	83.2	83.0	82.6	81.5	78.8	74.1	71.2
112.5°	78.6	78.7	79.4	79.5	79.4	79.4	79.1	78.1	75.7	71.2	68.6
115°	75.1	75.1	75.5	75.9	75.8	75.6	75.4	74.7	72.3	68.3	65.6
117.5°	71.1	71.2	71.6	71.8	71.8	71.8	71.6	70.8	68.8	65.0	62.5
120°	67.7	67.6	67.8	67.8	67.8	68.0	67.8	67.2	65.1	61.5	59.3
122.5°	63.7	63.7	64.0	64.0	64.2	63.8	63.7	63.2	61.2	57.9	55.9
125°	60.1	59.9	60.1	60.3	60.1	60.0	59.8	59.3	57.4	54.3	52.3
127.5°	56.3	56.4	56.5	56.6	56.5	56.3	56.0	55.2	53.4	50.5	48.9
130°	52.8	52.7	52.7	52.6	52.7	52.5	52.0	51.3	49.4	46.9	45.4
132.5°	49.1	49.0	49.1	49.1	48.9	48.6	48.2	47.4	45.6	43.2	41.9
135°	45.6	45.8	45.9	45.4	45.3	45.0	44.7	43.7	42.1	40.0	38.7
137.5°	42.4	42.4	42.3	42.0	41.9	41.6	41.0	40.2	38.6	36.6	35.5
140°	38.9	39.1	38.9	39.0	38.5	38.2	38.0	36.7	35.4	33.6	32.4
142.5°	36.1	35.8	35.7	35.7	35.5	35.0	34.5	33.5	32.2	30.7	29.8
145°	32.7	32.7	32.6	32.4	32.1	31.8	31.4	30.4	29.3	27.7	27.1
147.5°	30.1	29.8	29.8	29.5	29.3	28.8	28.4	27.5	26.5	25.4	24.5
150°	27.0	26.9	26.7	26.7	26.3	26.0	25.5	24.9	24.0	22.9	22.3
152.5°	24.6	24.5	24.4	24.2	24.0	23.6	23.1	22.6	21.8	20.8	20.4
155°	22.3	22.1	22.1	21.8	21.6	21.3	20.9	20.4	19.8	18.9	18.5
157.5°	20.0	20.2	20.0	19.9	19.7	19.3	19.0	18.5	18.0	17.3	17.0
160°	18.3	18.3	18.2	18.0	17.9	17.5	17.3	16.9	16.4	15.9	15.6
162.5°	16.8	16.8	16.7	16.5	16.3	16.2	15.9	15.5	15.0	14.6	14.3
165°	15.5	15.4	15.3	15.1	15.0	14.8	14.6	14.2	13.9	13.6	13.4
167.5°	14.3	14.3	14.1	14.1	14.0	13.8	13.6	13.3	13.0	12.7	12.6
170°	13.3	13.4	13.3	13.2	13.1	12.9	12.7	12.5	12.3	12.1	11.9
172.5°	12.7	12.7	12.5	12.5	12.4	12.3	12.1	11.9	11.8	11.6	11.5
175°	12.0	12.0	11.9	11.9	11.8	11.7	11.6	11.4	11.3	11.1	11.1
177.5°	11.6	11.5	11.5	11.4	11.4	11.3	11.2	11.1	11.0	11.0	10.9
180°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
2.5°	8.0	7.6	7.2	6.8	6.4	6.1	5.7	5.5	5.5	5.4
5°	8.8	8.2	7.6	6.9	6.4	5.9	5.4	5.1	4.9	4.9
7.5°	11.3	10.4	9.3	8.5	7.9	7.2	6.6	6.3	6.0	6.0
10°	14.3	13.1	11.9	10.7	9.8	8.9	8.3	7.8	7.5	7.5
12.5°	17.7	16.2	14.7	13.4	12.2	10.9	10.0	9.4	9.2	9.2
15°	21.3	19.5	17.7	16.0	14.3	13.0	11.8	11.1	10.6	10.6
17.5°	25.0	22.8	20.7	18.5	16.6	14.8	13.4	12.3	11.8	11.8
20°	28.6	26.1	23.5	21.0	18.6	16.3	14.7	13.5	12.8	12.8
22.5°	32.7	29.7	26.5	23.5	20.8	18.1	16.0	14.6	13.9	13.9
25°	37.2	33.5	29.9	26.2	22.9	20.0	17.5	15.8	14.9	14.9
27.5°	41.6	37.6	33.4	29.1	25.2	21.9	19.0	17.1	16.0	16.0
30°	46.2	41.6	36.8	32.2	27.6	23.7	20.6	18.3	17.1	17.0
32.5°	50.8	45.6	40.3	35.0	30.1	25.8	22.2	19.5	18.2	18.0
35°	55.5	49.5	43.6	37.8	32.3	27.5	23.5	20.6	19.1	19.0
37.5°	59.7	53.4	46.9	40.4	34.6	29.2	24.9	21.7	20.0	19.8
40°	63.9	56.9	49.9	43.0	36.7	31.1	26.2	22.8	20.8	20.7
42.5°	67.3	60.0	52.5	45.2	38.4	32.4	27.4	23.6	21.5	21.2
45°	70.8	63.0	55.1	47.3	40.2	33.9	28.4	24.4	22.1	21.8
47.5°	73.6	65.6	57.1	49.0	41.7	34.9	29.3	24.9	22.5	22.2
50°	76.2	67.7	59.0	50.5	42.9	36.0	30.0	25.4	22.8	22.4
52.5°	78.5	69.6	60.6	51.8	43.9	36.9	30.6	25.6	22.9	22.6
55°	80.3	71.1	61.8	53.0	44.9	37.5	31.0	25.9	23.0	22.6
57.5°	82.1	72.7	63.1	54.0	45.8	38.2	31.5	26.1	23.1	22.7
60°	83.4	73.9	64.0	54.7	46.4	38.7	31.8	26.2	23.0	22.6
62.5°	84.6	74.8	64.8	55.4	46.9	39.1	32.0	26.2	22.9	22.4
65°	85.5	75.6	65.4	55.9	47.4	39.4	32.1	26.2	22.8	22.4
67.5°	86.2	76.2	65.8	56.3	47.7	39.7	32.2	26.2	22.6	22.2
70°	86.6	76.5	66.1	56.5	47.9	39.7	32.2	26.0	22.4	21.9
71°	86.8	76.6	66.2	56.7	48.0	39.9	32.3	26.1	22.4	22.0
72.5°	87.0	76.7	66.3	56.8	48.2	39.9	32.3	26.0	22.3	21.9
75°	87.0	76.6	66.3	56.9	48.2	40.0	32.2	25.9	22.2	21.7
77.5°	86.7	76.5	66.2	56.8	48.2	39.9	32.1	25.7	22.1	21.5
80°	86.2	76.1	65.9	56.6	48.0	39.7	31.9	25.6	21.8	21.3
82.5°	85.5	75.4	65.4	56.2	47.7	39.5	31.8	25.3	21.6	21.2
85°	84.6	74.6	64.8	55.8	47.4	39.3	31.5	25.2	21.5	21.1
87.5°	83.5	73.7	64.1	55.3	47.0	38.9	31.2	25.0	21.4	20.9
90°	82.2	72.7	63.3	54.7	46.5	38.5	31.0	24.9	21.4	20.9
92.5°	80.8	71.6	62.4	54.0	46.0	38.1	30.6	24.7	21.3	20.8
95°	79.3	70.3	61.4	53.2	45.4	37.6	30.3	24.6	21.3	20.9
97.5°	77.8	69.2	60.5	52.5	44.8	37.2	30.1	24.5	21.4	21.0
100°	76.1	67.7	59.5	51.6	44.0	36.6	29.8	24.4	21.5	21.1
102.5°	74.1	66.1	58.1	50.5	43.1	36.0	29.4	24.2	21.4	21.1
105°	72.3	64.5	56.8	49.5	42.4	35.3	29.0	24.2	21.5	21.1
107.5°	70.1	62.9	55.4	48.4	41.5	34.7	28.6	24.0	21.5	21.2

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CATALOG NUMBER: FFX-CLB-30-AMB-U-VM9-T4

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	68.0	60.9	53.9	47.1	40.4	33.8	28.0	23.7	21.4	21.1
112.5°	65.4	58.8	52.2	45.7	39.1	32.9	27.4	23.4	21.3	21.0
115°	62.7	56.7	50.2	44.1	37.8	31.8	26.7	23.0	21.0	20.7
117.5°	59.8	54.1	48.1	42.2	36.4	30.7	25.8	22.4	20.6	20.3
120°	56.8	51.5	45.8	40.4	34.8	29.5	24.9	21.7	20.0	19.9
122.5°	53.6	48.7	43.5	38.4	33.0	28.1	24.0	21.0	19.5	19.4
125°	50.3	45.8	41.1	36.2	31.4	26.7	22.8	20.2	18.9	18.7
127.5°	46.9	42.9	38.5	34.0	29.5	25.3	21.8	19.3	18.1	17.9
130°	43.8	39.9	35.9	31.9	27.7	23.8	20.7	18.5	17.3	17.2
132.5°	40.2	37.1	33.5	29.7	25.9	22.3	19.6	17.5	16.5	16.4
135°	37.3	34.2	31.0	27.7	24.2	21.1	18.5	16.8	15.9	15.7
137.5°	34.4	31.7	28.7	25.7	22.6	19.8	17.6	15.9	15.2	15.0
140°	31.5	29.1	26.6	23.8	21.1	18.6	16.6	15.2	14.5	14.4
142.5°	28.8	26.6	24.4	22.0	19.7	17.4	15.7	14.5	13.9	13.7
145°	26.3	24.4	22.3	20.3	18.2	16.3	14.8	13.7	13.1	13.1
147.5°	23.9	22.3	20.6	18.8	17.0	15.4	14.1	13.2	12.7	12.7
150°	21.7	20.3	18.8	17.3	15.8	14.4	13.2	12.5	12.1	12.1
152.5°	19.9	18.7	17.4	16.1	14.8	13.7	12.7	12.1	11.8	11.8
155°	18.1	17.1	16.0	15.0	13.9	13.0	12.2	11.7	11.4	11.4
157.5°	16.5	15.7	14.9	14.0	13.2	12.4	11.8	11.4	11.2	11.2
160°	15.2	14.6	13.9	13.2	12.5	11.9	11.5	11.1	11.0	11.0
162.5°	14.1	13.6	13.1	12.6	12.1	11.6	11.3	11.0	10.8	10.8
165°	13.2	12.8	12.3	12.0	11.6	11.3	10.9	10.8	10.7	10.7
167.5°	12.5	12.1	11.8	11.5	11.3	11.0	10.8	10.7	10.6	10.6
170°	11.8	11.6	11.4	11.2	11.0	10.8	10.7	10.6	10.6	10.6
172.5°	11.4	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.6	10.7
175°	11.1	11.0	10.9	10.8	10.8	10.7	10.7	10.7	10.7	10.6
177.5°	10.9	10.8	10.8	10.8	10.9	10.9	10.8	10.8	10.8	10.9
180°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

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

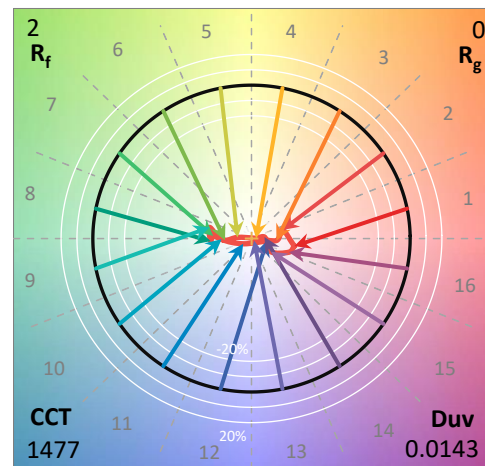
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

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

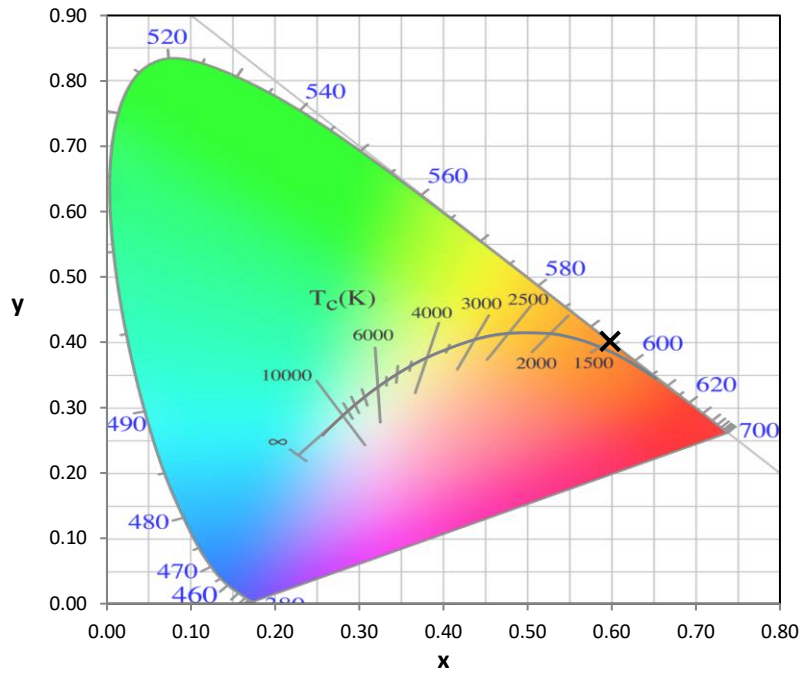
Stabilization Time: 152M
 Operation Time: 3H 32M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

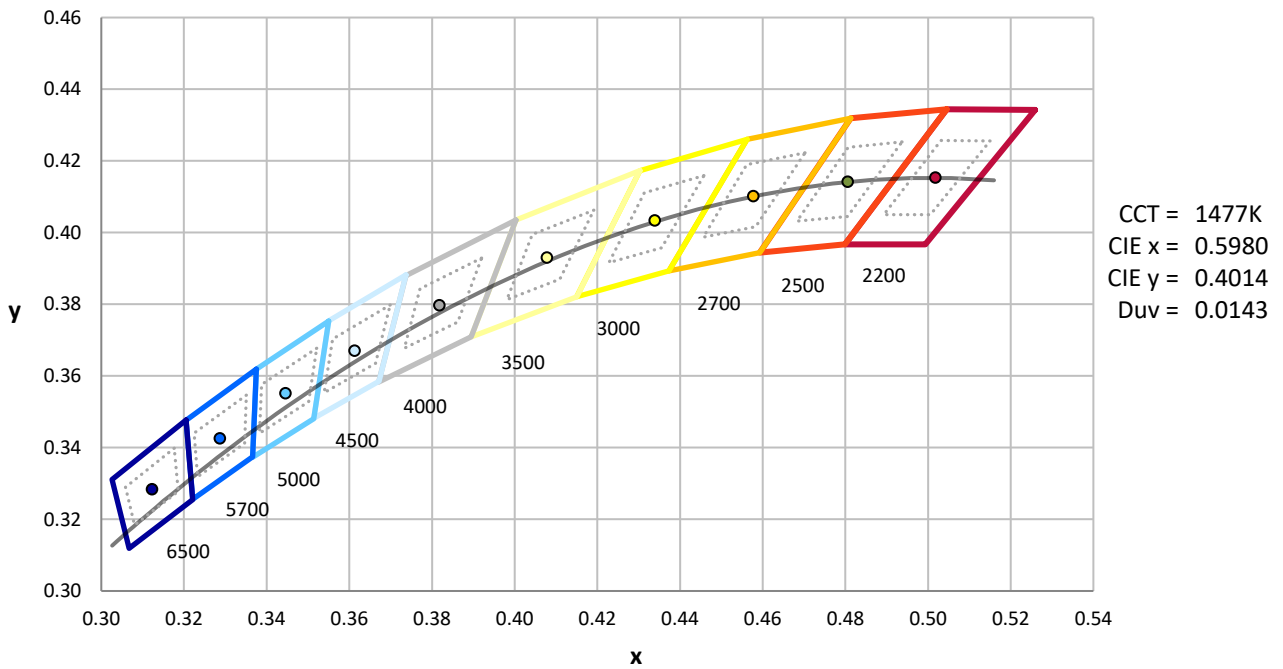
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



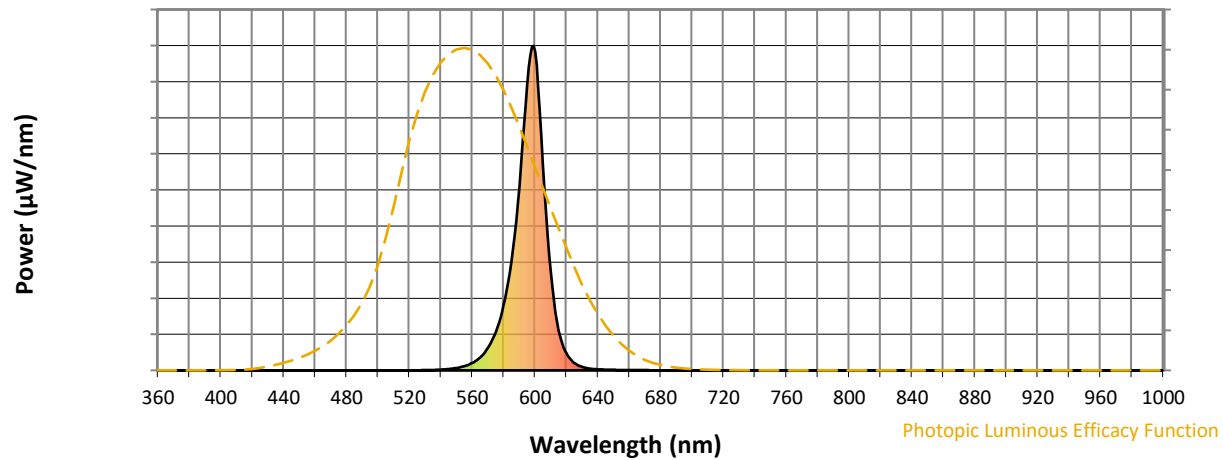
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

REPORT NUMBER: SP1-2501-332-6

Photopic Flux vs. Wavelength

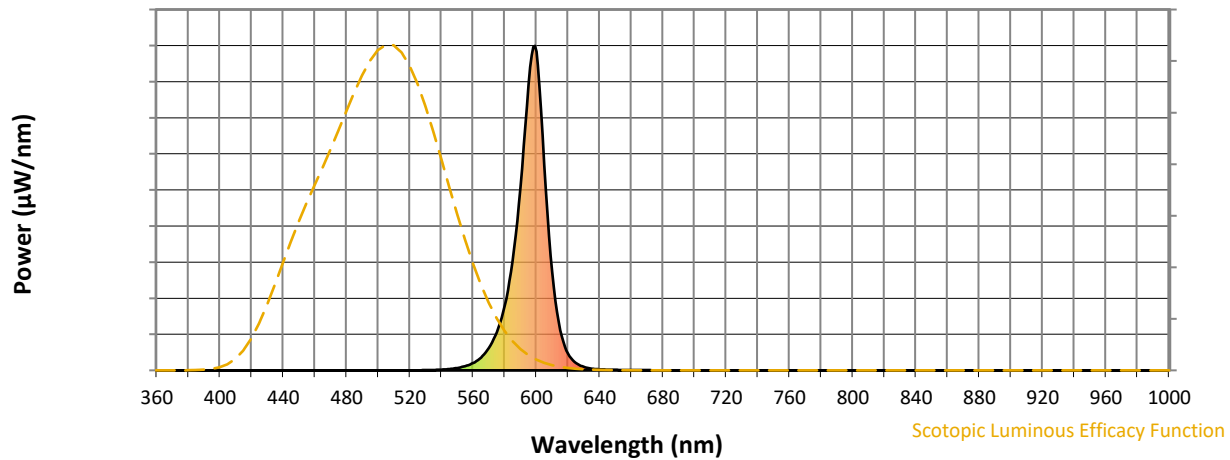


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



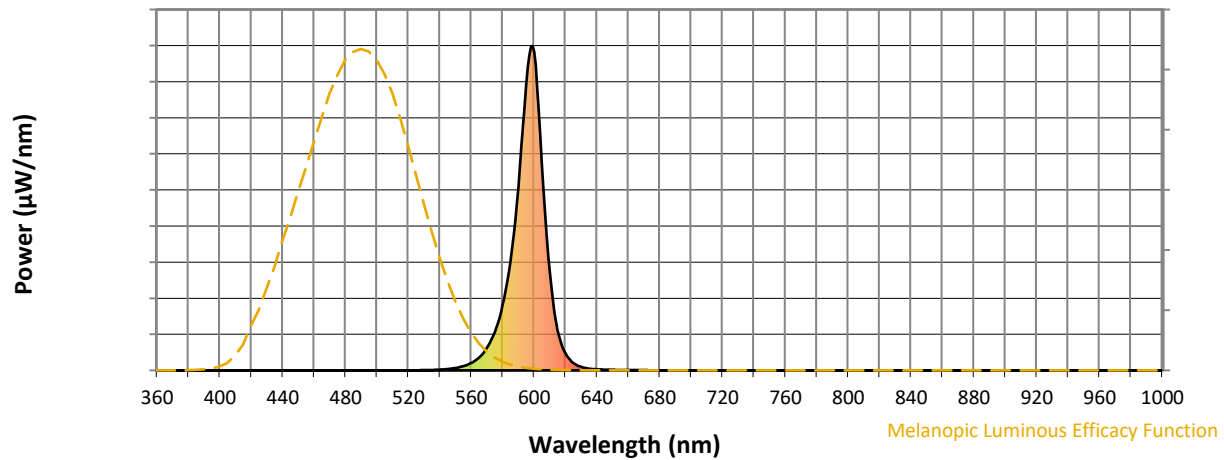
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 0.11

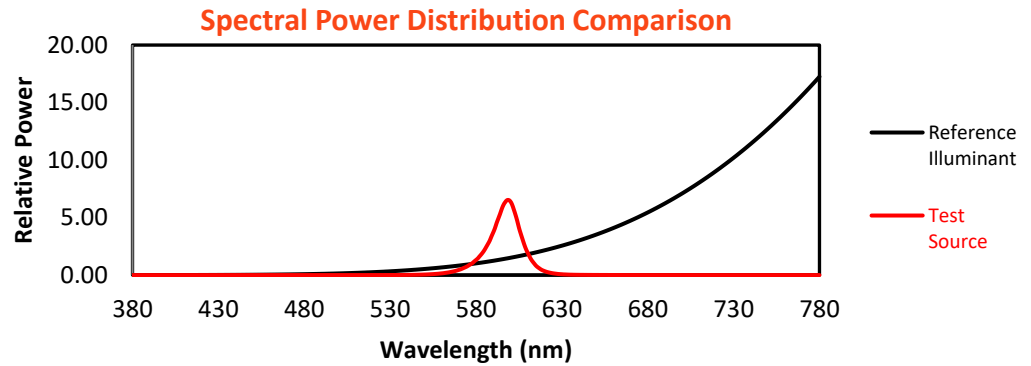
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR	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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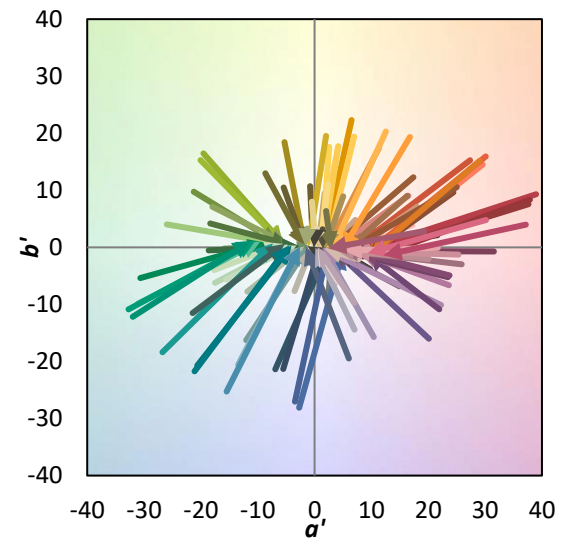
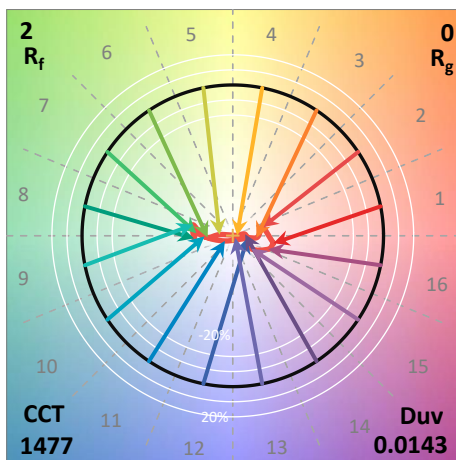
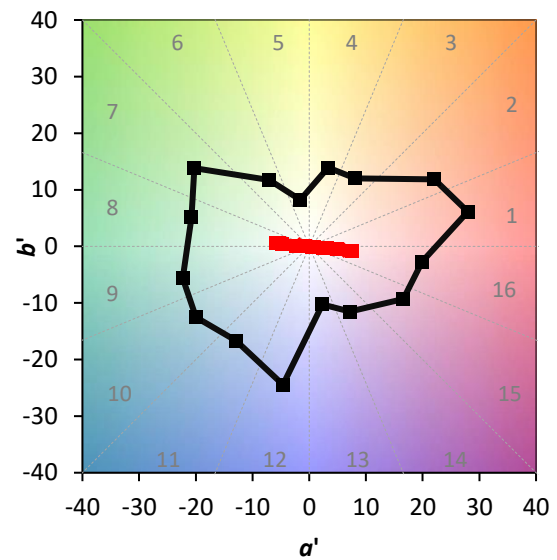
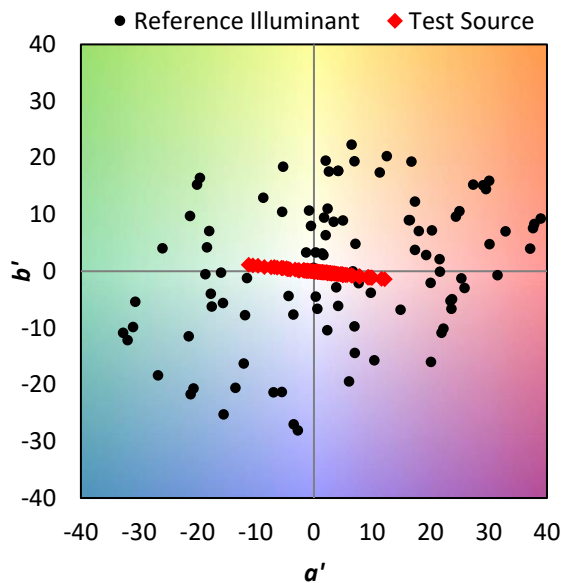
TM-30-18

Summary

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

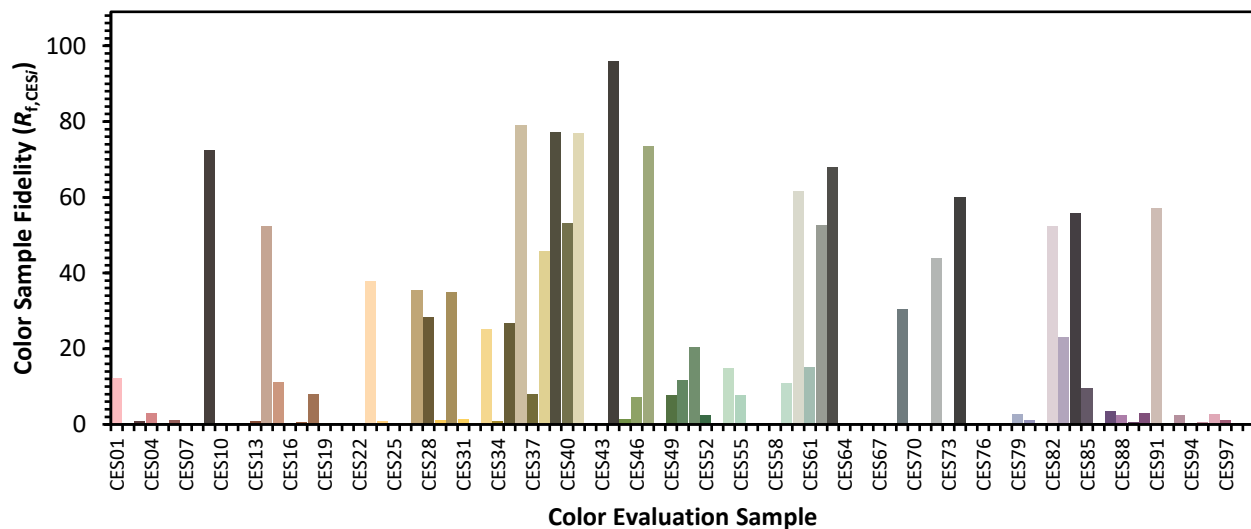


Color Vector Graphics

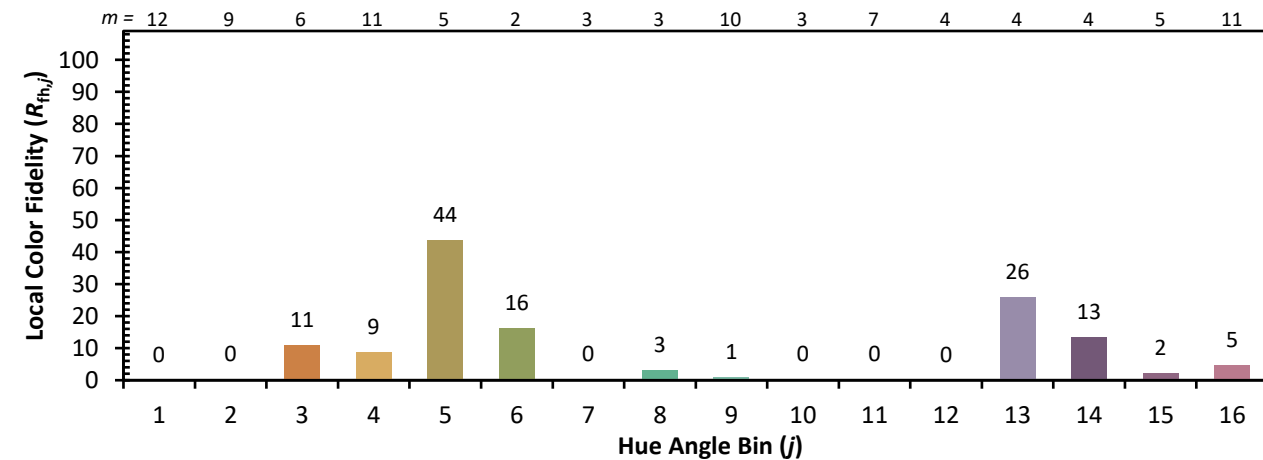
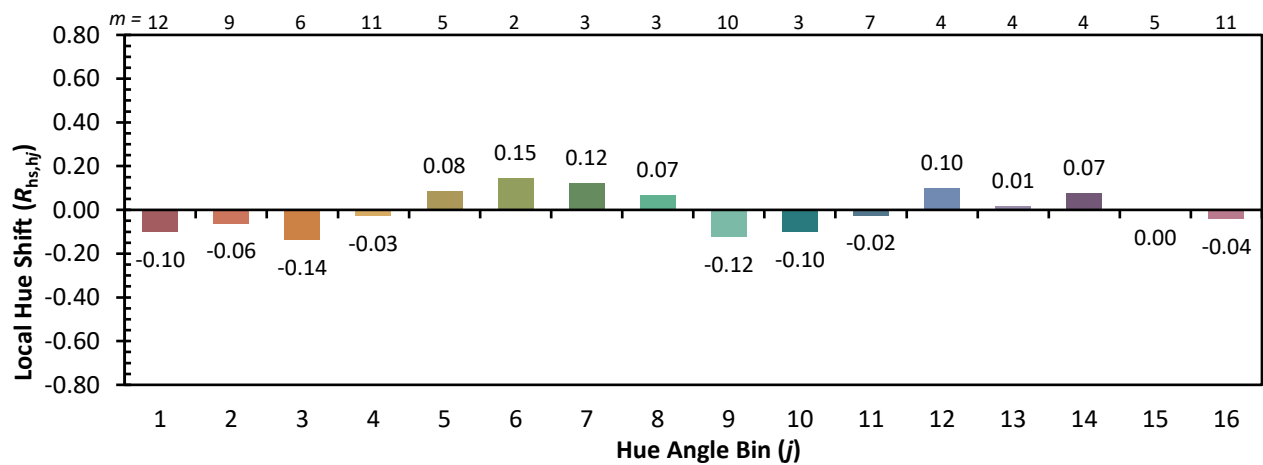
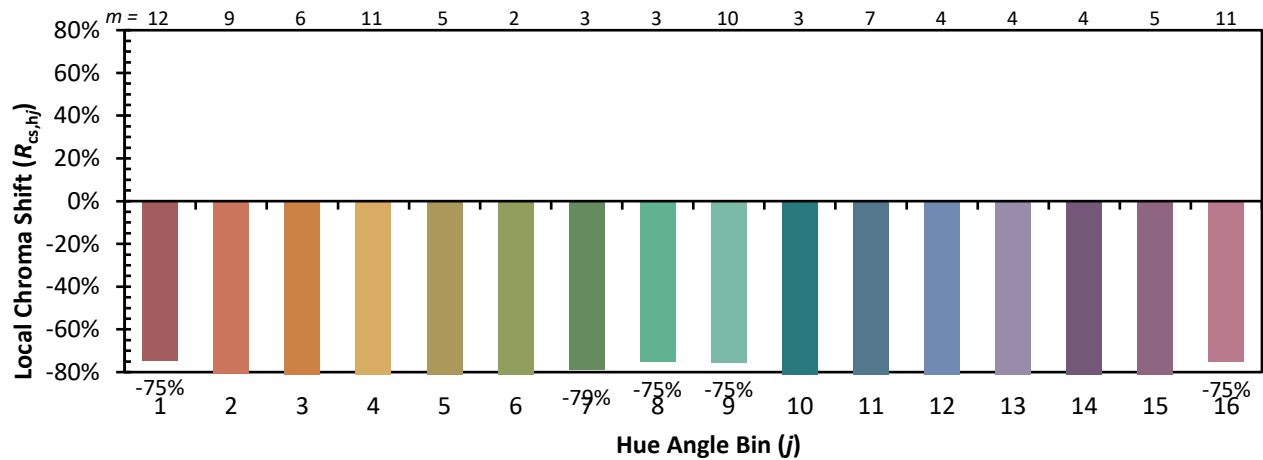


Individual Sample Fidelity Index ($R_{f,i}$)

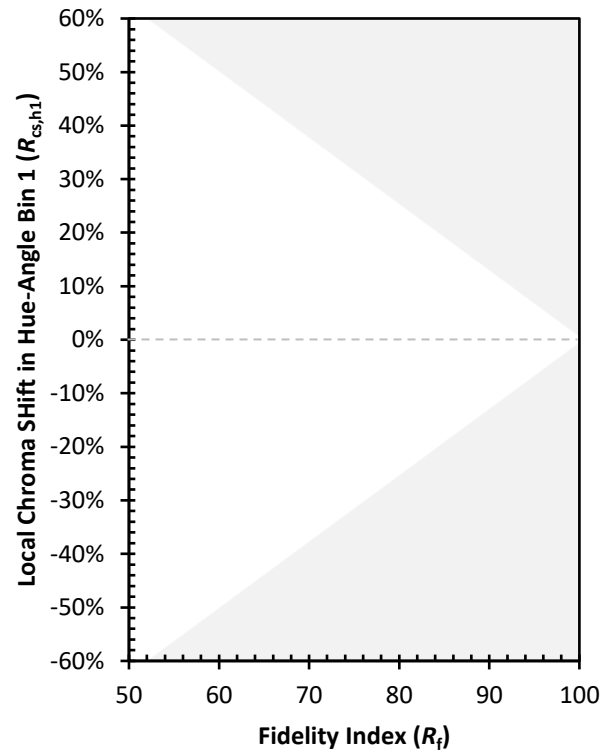
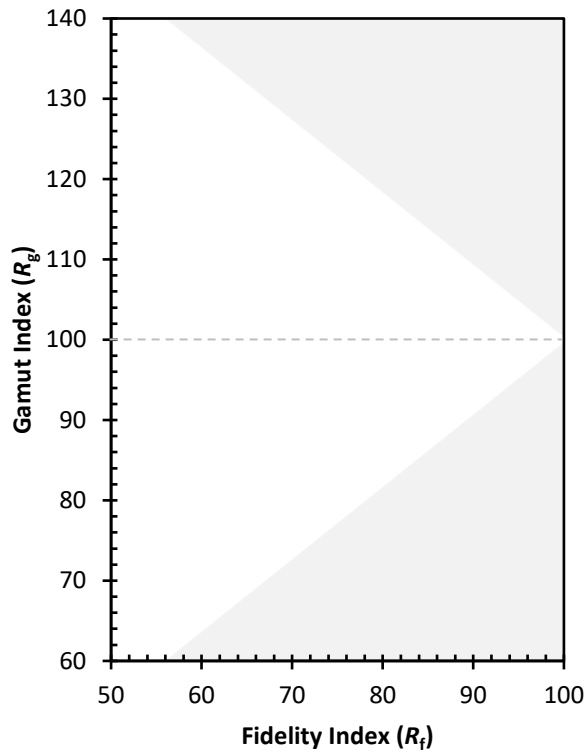
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 =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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)