

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: P1175339

Luminaire Tested: **FFX-CLB-30-AMB-U-FR-T4-P-HSS**

Issue Date: 08/12/2025

Test Information

Test Method: LM-79-08
Report Number: P1175339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 08/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-30-AMB-U-FR-T4-P-HSS
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T4 DISTRIBUTION
(POLYCARBONATE) AND HOUSESIDE SHIELD
Light Source: (4) 1500K CCT, 0 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.5 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type IV - 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): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

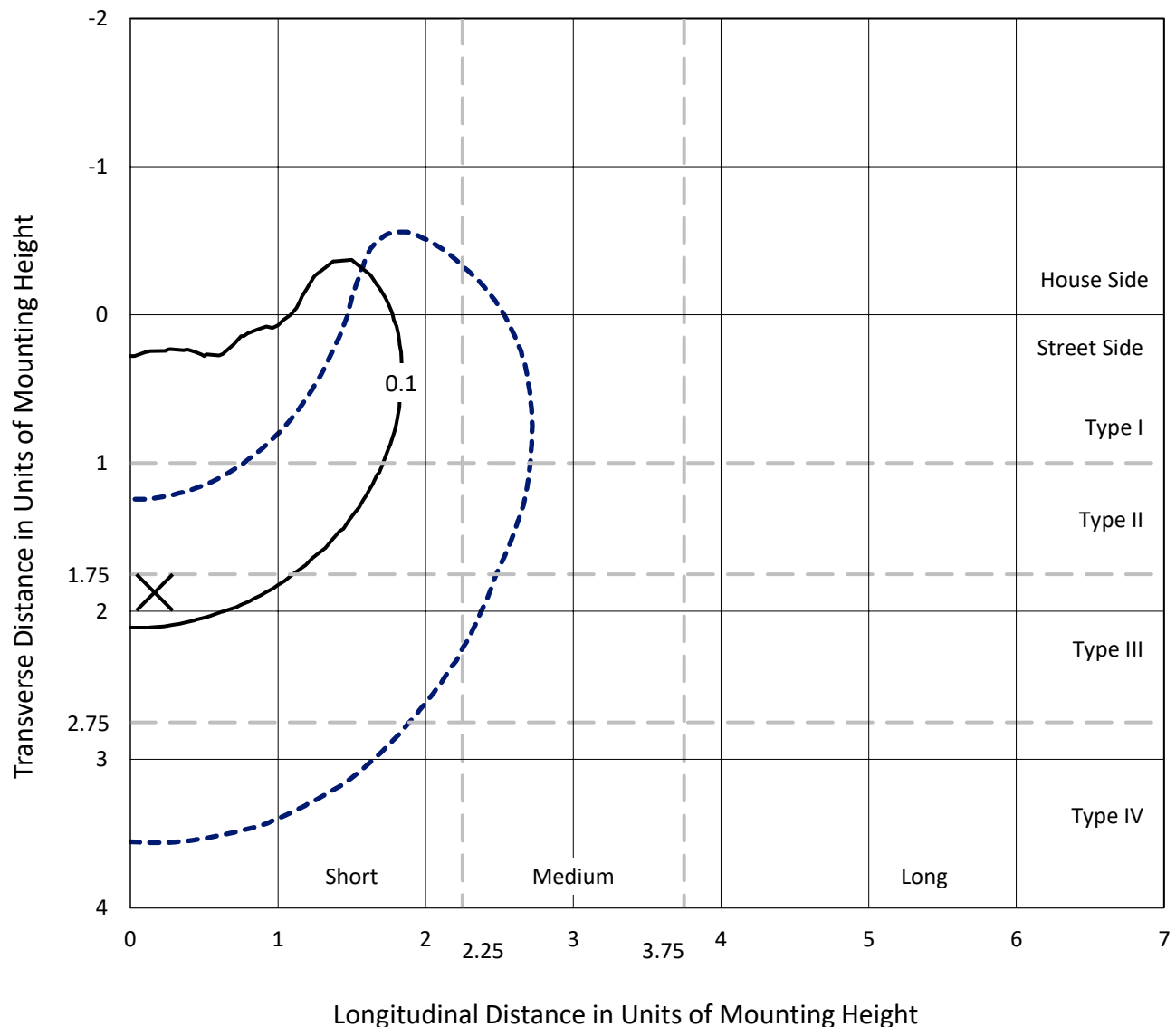


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Iso-Footcandle Lines of Horizontal Illumination

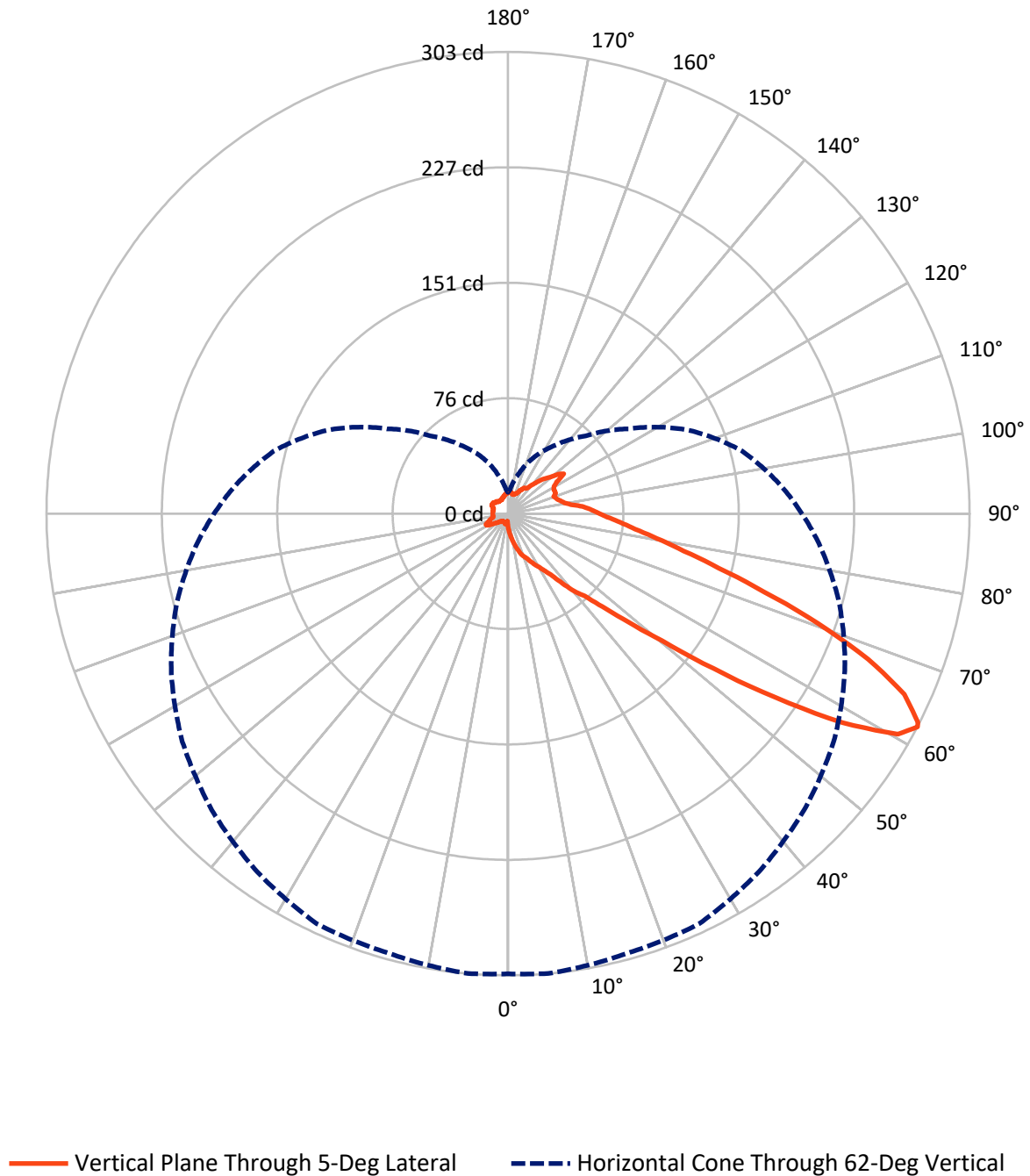
× Max cd
 - - - 1/2 Max cd



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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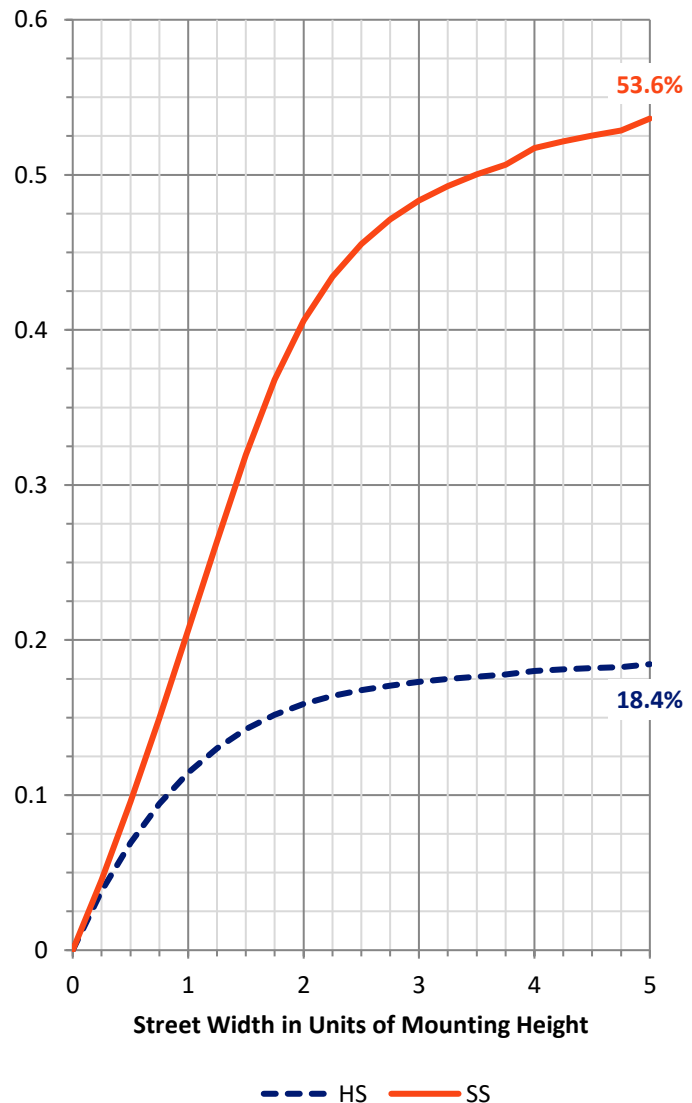
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	124.9	53.2	178.1
	% Fixture	19.4	8.2	27.6
Street Side	Lumens	367.3	99.1	466.5
	% Fixture	57.0	15.4	72.4
Total	Lumens	492.2	152.3	644.5
	% Fixture	76.4	23.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.2
10°-20°	4.7	0.7
20°-30°	10.2	1.6
30°-40°	20.0	3.1
40°-50°	43.8	6.8
50°-60°	115.1	17.9
60°-70°	156.3	24.2
70°-80°	89.8	13.9
80°-90°	51.4	8.0
90°-100°	34.8	5.4
100°-110°	25.1	3.9
110°-120°	23.4	3.6
120°-130°	27.2	4.2
130°-140°	19.5	3.0
140°-150°	11.2	1.7
150°-160°	6.4	1.0
160°-170°	3.5	0.5
170°-180°	1.3	0.2
0°-90°	492.2	76.4
0°-180°	644.5	100.0



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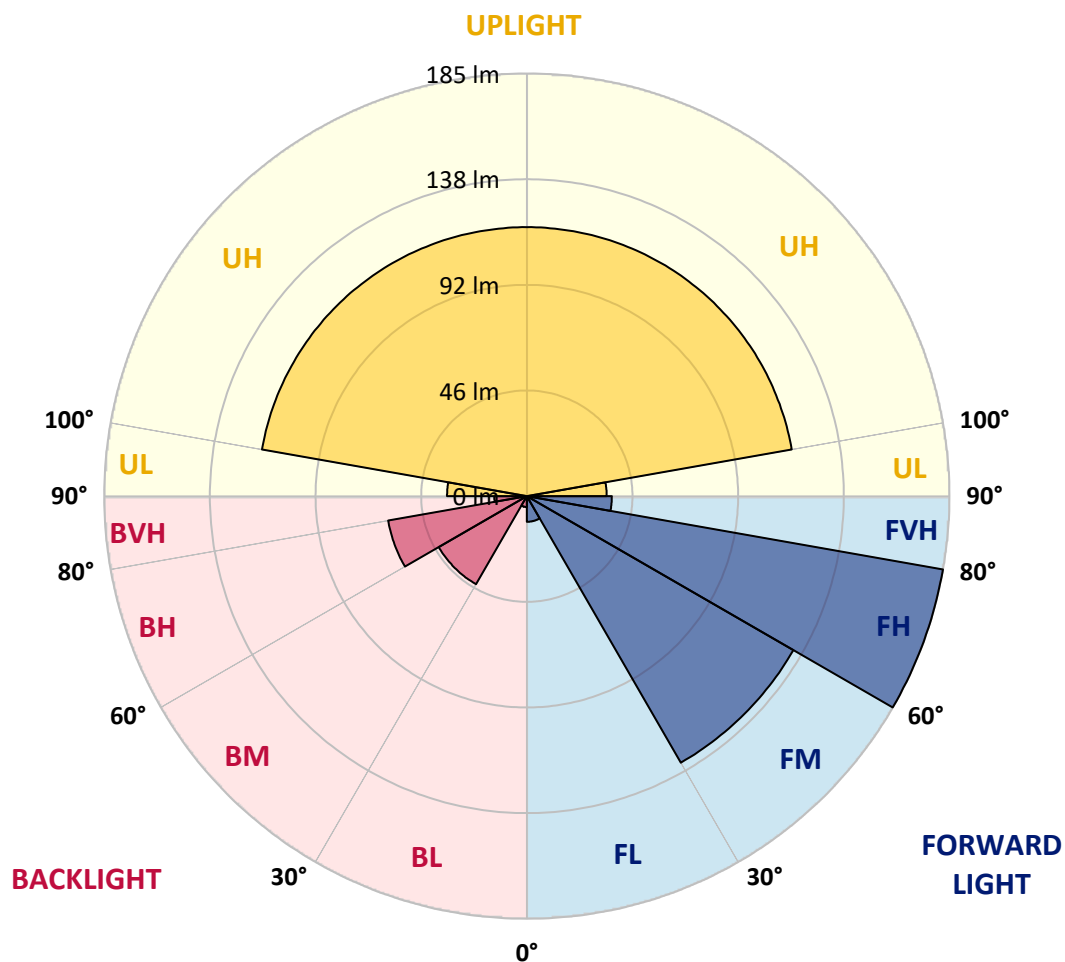
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11.2	1.7			
FM	(30°-60°)	134.4	20.9			
FH	(60°-80°)	184.6	28.6			G0/660
FVH	(80°-90°)	37.1	5.8			G1/100
BL	(0°-30°)	4.8	0.7	B0/110		
BM	(30°-60°)	44.4	6.9	B0/220		
BH	(60°-80°)	61.5	9.5	B0/110		G0/110
BVH	(80°-90°)	14.2	2.2			G1/100
UL	(90°-100°)	34.8	5.4		U2/50	
UH	(100°-180°)	117.5	18.2		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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0	9.0	9.0	9.0
5°	14.0	14.0	14.0	13.0	13.0	12.0	12.0	11.0	10.0	10.0	9.0
7.5°	16.0	16.0	16.0	16.0	15.0	14.0	13.0	13.0	12.0	11.0	11.0
10°	19.0	19.0	19.0	18.0	18.0	17.0	16.0	15.0	15.0	14.0	13.0
12.5°	22.0	22.0	22.0	22.0	21.0	20.0	19.0	19.0	18.0	16.0	16.0
15°	25.0	25.0	25.0	25.0	24.0	23.0	22.0	21.0	20.0	18.0	17.0
17.5°	28.0	28.0	27.0	27.0	26.0	25.0	24.0	23.0	21.0	20.0	19.0
20°	30.0	30.0	30.0	29.0	29.0	28.0	26.0	25.0	23.0	21.0	20.0
22.5°	32.0	32.0	32.0	32.0	31.0	30.0	29.0	27.0	25.0	23.0	22.0
25°	35.0	35.0	35.0	34.0	34.0	32.0	31.0	29.0	27.0	25.0	23.0
27.5°	38.0	38.0	38.0	38.0	37.0	35.0	33.0	31.0	29.0	27.0	25.0
30°	41.0	41.0	41.0	41.0	39.0	38.0	36.0	34.0	31.0	29.0	27.0
32.5°	45.0	45.0	44.0	44.0	43.0	41.0	39.0	37.0	34.0	31.0	30.0
35°	50.0	50.0	49.0	49.0	47.0	46.0	44.0	42.0	39.0	36.0	34.0
37.5°	58.0	58.0	58.0	57.0	55.0	55.0	53.0	50.0	47.0	43.0	41.0
40°	68.0	67.0	66.0	65.0	63.0	63.0	61.0	58.0	54.0	50.0	46.0
42.5°	74.0	74.0	75.0	75.0	74.0	71.0	68.0	64.0	60.0	56.0	52.0
45°	87.0	87.0	88.0	88.0	86.0	84.0	80.0	75.0	70.0	64.0	61.0
47.5°	106.0	106.0	105.0	105.0	102.0	101.0	97.0	91.0	85.0	76.0	72.0
50°	131.9	130.9	130.9	130.9	128.9	125.9	119.9	113.9	105.0	96.0	90.0
52.5°	170.9	168.9	168.9	165.9	164.9	161.9	154.9	146.9	135.9	121.9	114.9
55°	214.9	212.9	211.9	210.9	208.9	200.9	192.9	181.9	167.9	151.9	142.9
57.5°	259.9	258.9	258.9	257.9	252.9	241.9	228.9	212.9	195.9	178.9	169.9
60°	293.9	293.9	291.9	288.9	281.9	270.9	257.9	240.9	218.9	200.9	188.9
62°	301.9	302.9	298.9	296.9	286.9	274.9	260.9	243.9	224.9	203.9	192.9
62.5°	300.9	301.9	298.9	294.9	284.9	272.9	258.9	242.9	222.9	203.9	191.9
65°	283.9	285.9	279.9	273.9	260.9	251.9	236.9	223.9	207.9	189.9	178.9
67.5°	253.9	254.9	250.9	242.9	228.9	218.9	206.9	197.9	185.9	168.9	159.9
70°	214.9	215.9	212.9	206.9	196.9	186.9	174.9	167.9	156.9	144.9	136.9
72.5°	174.9	175.9	174.9	170.9	160.9	151.9	140.9	134.9	125.9	115.9	111.0
75°	141.9	142.9	141.9	136.9	129.9	122.9	113.9	109.0	100.0	92.0	87.0
77.5°	116.9	117.9	115.9	112.9	108.0	102.0	98.0	92.0	84.0	77.0	73.0
80°	98.0	99.0	98.0	96.0	93.0	89.0	86.0	81.0	74.0	67.0	64.0
82.5°	84.0	84.0	84.0	83.0	81.0	79.0	77.0	72.0	66.0	60.0	58.0
85°	73.0	74.0	74.0	73.0	71.0	69.0	67.0	63.0	58.0	54.0	51.0
87.5°	65.0	65.0	65.0	64.0	62.0	61.0	59.0	56.0	52.0	48.0	46.0
90°	58.0	59.0	59.0	58.0	57.0	55.0	53.0	51.0	48.0	44.0	42.0
92.5°	54.0	54.0	54.0	53.0	52.0	51.0	49.0	47.0	44.0	41.0	39.0
95°	50.0	49.0	49.0	48.0	47.0	46.0	44.0	42.0	40.0	38.0	36.0
97.5°	42.0	42.0	42.0	41.0	40.0	39.0	37.0	36.0	34.0	32.0	31.0
100°	38.0	38.0	38.0	37.0	37.0	35.0	34.0	33.0	31.0	29.0	28.0
102.5°	36.0	36.0	36.0	35.0	34.0	33.0	32.0	31.0	29.0	27.0	27.0
105°	34.0	34.0	34.0	33.0	32.0	31.0	30.0	29.0	28.0	26.0	25.0
107.5°	32.0	33.0	32.0	32.0	31.0	30.0	29.0	28.0	27.0	25.0	24.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	32.0	32.0	33.0	32.0	31.0	30.0	28.0	27.0	26.0	25.0	24.0
112.5°	34.0	34.0	34.0	33.0	31.0	30.0	29.0	28.0	27.0	26.0	25.0
115°	34.0	34.0	33.0	33.0	33.0	30.0	30.0	29.0	28.0	26.0	25.0
117.5°	34.0	34.0	33.0	34.0	34.0	32.0	30.0	28.0	27.0	26.0	25.0
120°	35.0	35.0	36.0	38.0	37.0	36.0	33.0	31.0	30.0	29.0	27.0
122.5°	38.0	38.0	40.0	42.0	42.0	39.0	36.0	34.0	35.0	34.0	33.0
125°	45.0	45.0	45.0	46.0	46.0	46.0	44.0	43.0	41.0	39.0	37.0
127.5°	41.0	42.0	43.0	43.0	44.0	44.0	43.0	44.0	44.0	43.0	41.0
130°	37.0	37.0	38.0	38.0	39.0	39.0	39.0	39.0	38.0	37.0	36.0
132.5°	34.0	34.0	34.0	34.0	35.0	36.0	36.0	36.0	35.0	34.0	33.0
135°	31.0	31.0	31.0	31.0	32.0	32.0	33.0	33.0	33.0	31.0	30.0
137.5°	27.0	27.0	27.0	27.0	28.0	29.0	30.0	30.0	30.0	29.0	28.0
140°	24.0	24.0	24.0	24.0	25.0	26.0	26.0	27.0	26.0	26.0	25.0
142.5°	21.0	21.0	22.0	22.0	23.0	22.0	22.0	23.0	23.0	23.0	22.0
145°	20.0	20.0	20.0	21.0	21.0	21.0	21.0	21.0	21.0	20.0	20.0
147.5°	20.0	20.0	20.0	20.0	21.0	21.0	21.0	21.0	21.0	20.0	20.0
150°	18.0	18.0	18.0	19.0	19.0	19.0	19.0	19.0	19.0	18.0	18.0
152.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	16.0	16.0
155°	15.0	15.0	15.0	15.0	15.0	16.0	16.0	16.0	15.0	15.0	15.0
157.5°	15.0	14.0	14.0	15.0	15.0	14.0	14.0	14.0	14.0	14.0	14.0
160°	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0	13.0
162.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0
165°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0	12.0	12.0
167.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.0	12.0
170°	14.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
172.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0
175°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0	13.0
177.5°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.0	13.0
180°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	8.0	8.0	7.0	7.0	7.0	7.0	6.0	6.0	6.0	6.0
5°	9.0	8.0	8.0	7.0	7.0	6.0	6.0	6.0	5.0	5.0
7.5°	10.0	10.0	9.0	8.0	8.0	7.0	7.0	6.0	6.0	6.0
10°	13.0	12.0	10.0	10.0	9.0	8.0	7.0	7.0	7.0	7.0
12.5°	15.0	14.0	12.0	11.0	9.0	8.0	8.0	7.0	7.0	7.0
15°	17.0	15.0	13.0	11.0	10.0	8.0	7.0	7.0	7.0	7.0
17.5°	18.0	16.0	14.0	12.0	10.0	8.0	7.0	7.0	7.0	7.0
20°	19.0	17.0	15.0	12.0	10.0	8.0	7.0	7.0	6.0	6.0
22.5°	21.0	18.0	16.0	13.0	10.0	9.0	7.0	7.0	6.0	6.0
25°	22.0	19.0	17.0	13.0	11.0	9.0	7.0	6.0	6.0	6.0
27.5°	24.0	21.0	18.0	14.0	11.0	9.0	7.0	6.0	6.0	6.0
30°	26.0	22.0	19.0	15.0	12.0	9.0	8.0	6.0	6.0	6.0
32.5°	28.0	25.0	21.0	16.0	12.0	10.0	8.0	7.0	6.0	6.0
35°	32.0	28.0	23.0	17.0	13.0	10.0	8.0	7.0	6.0	6.0
37.5°	38.0	34.0	27.0	19.0	14.0	11.0	9.0	7.0	6.0	6.0
40°	44.0	38.0	31.0	22.0	16.0	12.0	9.0	8.0	7.0	6.0
42.5°	50.0	43.0	34.0	25.0	18.0	13.0	10.0	8.0	7.0	7.0
45°	59.0	50.0	40.0	29.0	21.0	16.0	12.0	9.0	7.0	7.0
47.5°	69.0	59.0	48.0	36.0	26.0	19.0	13.0	10.0	8.0	8.0
50°	87.0	75.0	59.0	44.0	32.0	23.0	16.0	11.0	9.0	8.0
52.5°	111.0	97.0	76.0	55.0	40.0	29.0	20.0	13.0	10.0	9.0
55°	135.9	118.9	94.0	69.0	51.0	37.0	26.0	16.0	11.0	10.0
57.5°	161.9	141.9	112.9	82.0	61.0	45.0	33.0	21.0	13.0	12.0
60°	178.9	156.9	127.9	94.0	69.0	52.0	38.0	25.0	15.0	14.0
62°	181.9	158.9	129.9	97.0	72.0	55.0	41.0	27.0	16.0	14.0
62.5°	179.9	157.9	128.9	96.0	72.0	55.0	41.0	28.0	16.0	14.0
65°	166.9	145.9	119.9	90.0	67.0	52.0	38.0	26.0	16.0	14.0
67.5°	149.9	128.9	106.0	80.0	61.0	47.0	34.0	22.0	14.0	13.0
70°	128.9	111.0	89.0	68.0	52.0	42.0	31.0	19.0	13.0	12.0
72.5°	104.0	91.0	73.0	56.0	44.0	35.0	26.0	17.0	12.0	11.0
75°	81.0	71.0	58.0	46.0	36.0	29.0	22.0	15.0	11.0	11.0
77.5°	68.0	59.0	49.0	39.0	31.0	25.0	19.0	13.0	10.0	10.0
80°	60.0	53.0	43.0	34.0	27.0	22.0	16.0	12.0	10.0	10.0
82.5°	54.0	48.0	39.0	31.0	25.0	20.0	15.0	12.0	10.0	10.0
85°	48.0	43.0	35.0	28.0	23.0	19.0	14.0	11.0	10.0	10.0
87.5°	43.0	38.0	32.0	26.0	21.0	17.0	14.0	11.0	10.0	10.0
90°	40.0	36.0	30.0	25.0	20.0	17.0	13.0	11.0	10.0	10.0
92.5°	37.0	33.0	28.0	23.0	19.0	16.0	13.0	11.0	10.0	10.0
95°	34.0	30.0	26.0	22.0	18.0	15.0	13.0	11.0	10.0	10.0
97.5°	29.0	27.0	23.0	20.0	17.0	14.0	12.0	10.0	10.0	9.0
100°	27.0	24.0	22.0	19.0	16.0	14.0	12.0	11.0	10.0	10.0
102.5°	25.0	23.0	21.0	18.0	16.0	14.0	12.0	11.0	10.0	10.0
105°	24.0	22.0	20.0	17.0	15.0	13.0	12.0	11.0	10.0	10.0
107.5°	23.0	21.0	19.0	17.0	15.0	13.0	12.0	11.0	10.0	10.0



REPORT NUMBER: P1175339

CATALOG NUMBER: FFX-CLB-30-AMB-U-FR-T4-P-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	23.0	21.0	19.0	16.0	15.0	13.0	12.0	11.0	10.0	10.0
112.5°	24.0	22.0	19.0	17.0	15.0	13.0	12.0	11.0	11.0	11.0
115°	24.0	22.0	20.0	17.0	15.0	13.0	12.0	12.0	11.0	11.0
117.5°	24.0	22.0	20.0	17.0	15.0	14.0	13.0	12.0	12.0	12.0
120°	27.0	25.0	21.0	18.0	16.0	14.0	13.0	12.0	12.0	12.0
122.5°	31.0	28.0	23.0	19.0	17.0	16.0	14.0	13.0	12.0	12.0
125°	36.0	31.0	27.0	23.0	20.0	17.0	14.0	13.0	12.0	12.0
127.5°	39.0	34.0	29.0	23.0	19.0	16.0	14.0	13.0	12.0	11.0
130°	34.0	31.0	26.0	22.0	19.0	16.0	14.0	12.0	11.0	11.0
132.5°	32.0	28.0	25.0	21.0	18.0	15.0	13.0	12.0	11.0	11.0
135°	29.0	26.0	23.0	20.0	17.0	15.0	13.0	11.0	11.0	11.0
137.5°	26.0	24.0	21.0	19.0	16.0	14.0	12.0	11.0	11.0	10.0
140°	24.0	22.0	19.0	17.0	15.0	13.0	11.0	11.0	10.0	10.0
142.5°	21.0	19.0	17.0	15.0	13.0	12.0	11.0	11.0	10.0	10.0
145°	19.0	17.0	16.0	14.0	13.0	12.0	11.0	11.0	10.0	10.0
147.5°	19.0	17.0	16.0	14.0	13.0	12.0	11.0	10.0	10.0	10.0
150°	17.0	16.0	15.0	13.0	12.0	11.0	11.0	10.0	10.0	10.0
152.5°	16.0	15.0	14.0	12.0	12.0	11.0	10.0	10.0	10.0	10.0
155°	14.0	14.0	13.0	12.0	11.0	11.0	10.0	10.0	10.0	10.0
157.5°	13.0	13.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0
160°	13.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
162.5°	12.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
165°	12.0	12.0	12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
167.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
170°	13.0	13.0	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	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
177.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
180°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0

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

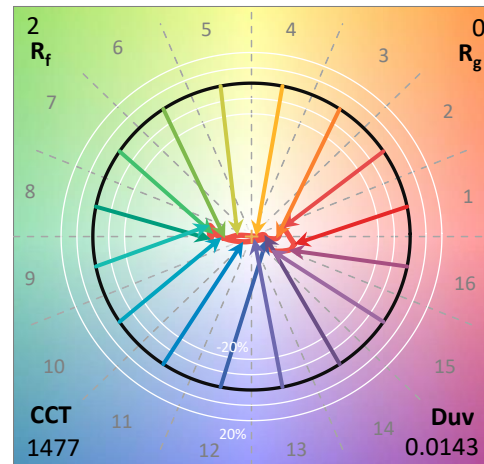
Data in this report applies to families of products including FFX-CLB-AMB-U-FR-T5

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

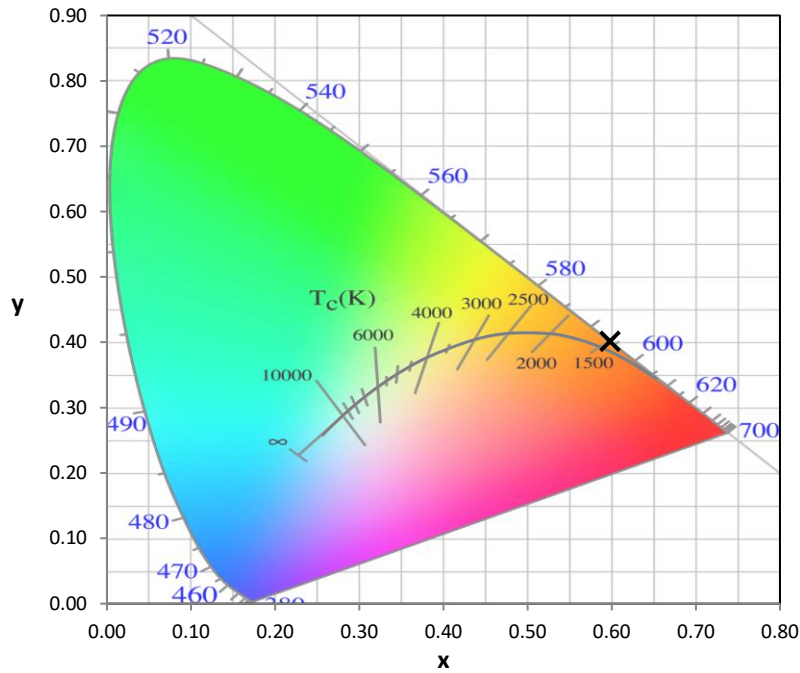
Stabilization Time: 152M
 Operation Time: 3H 32M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2501-332-6

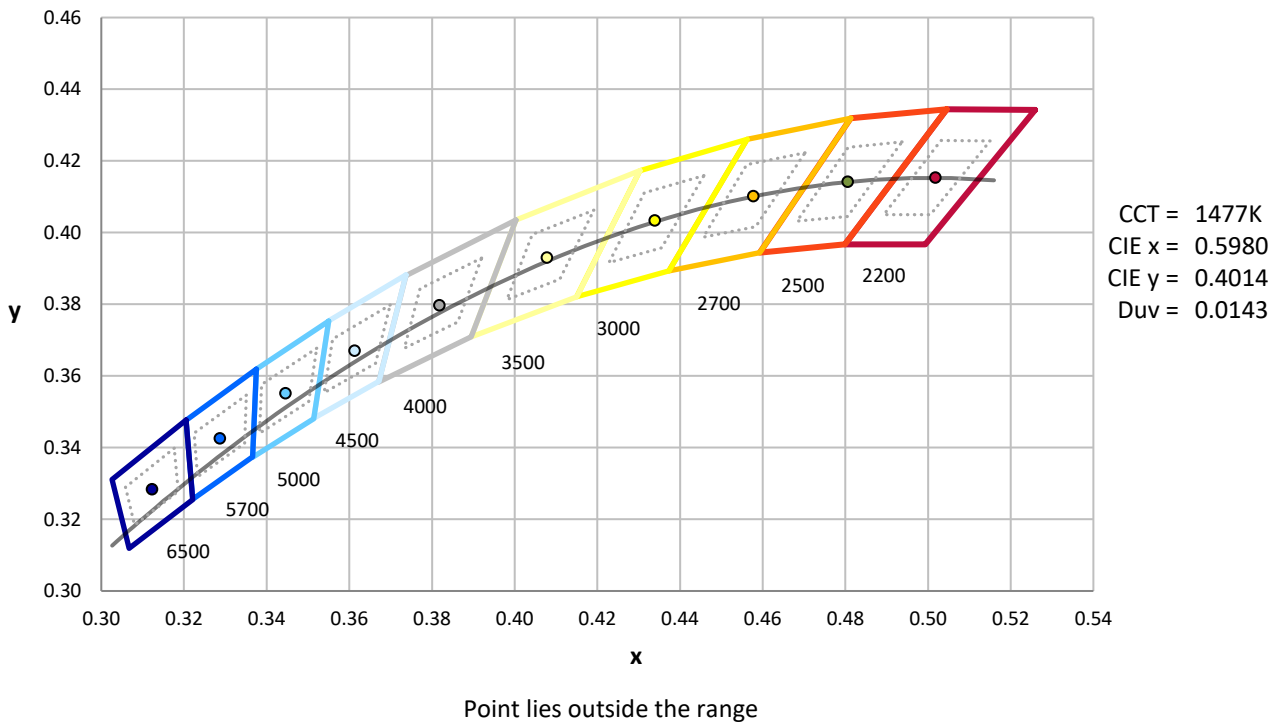
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-332-6

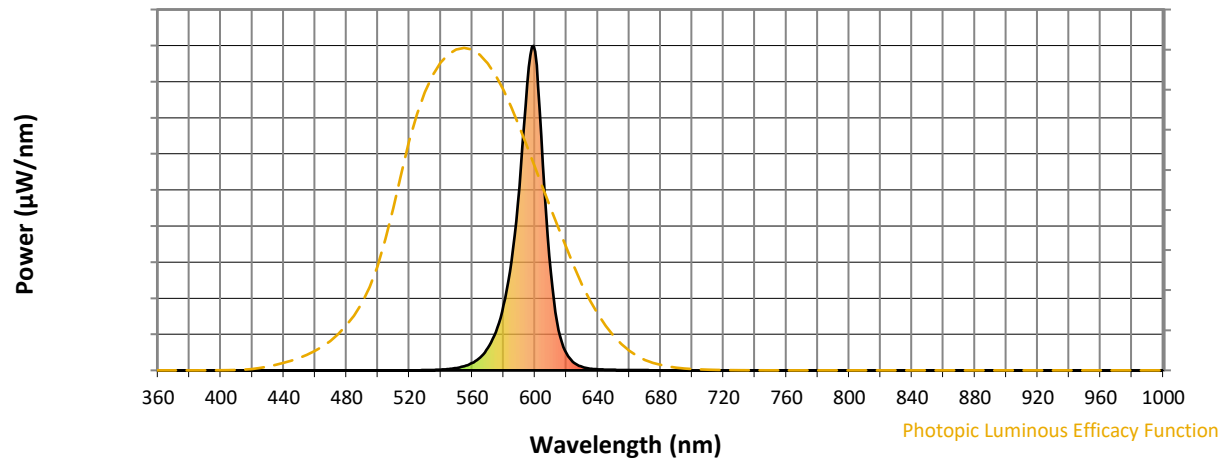
CIE 1931 Chromaticity Diagram



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



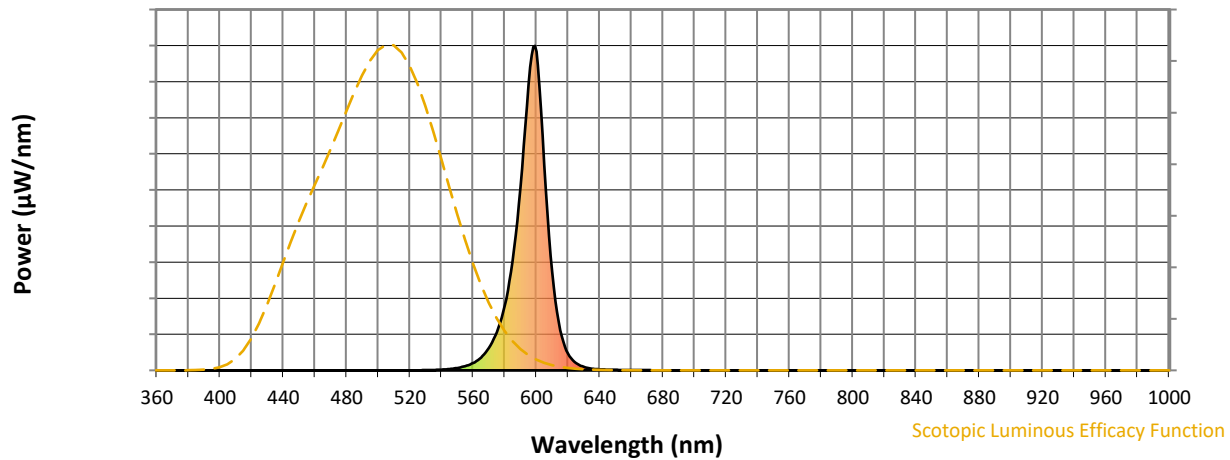
REPORT NUMBER: SP1-2501-332-6

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



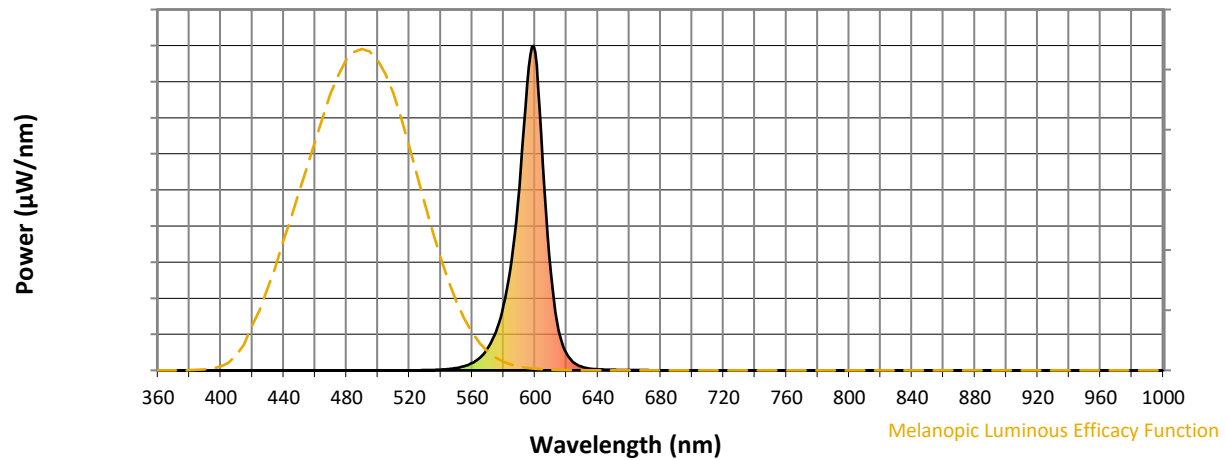
Scotopic Lumens: NR

S/P: 0.21

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

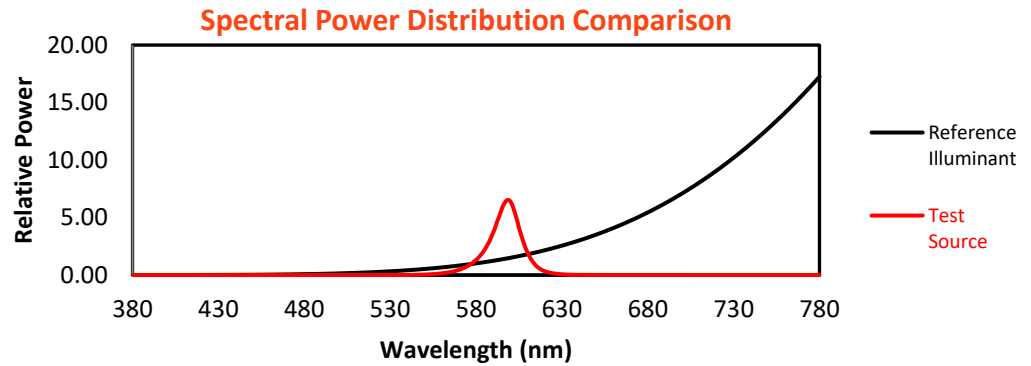
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	0	NR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

REPORT NUMBER: SP1-2501-332-6

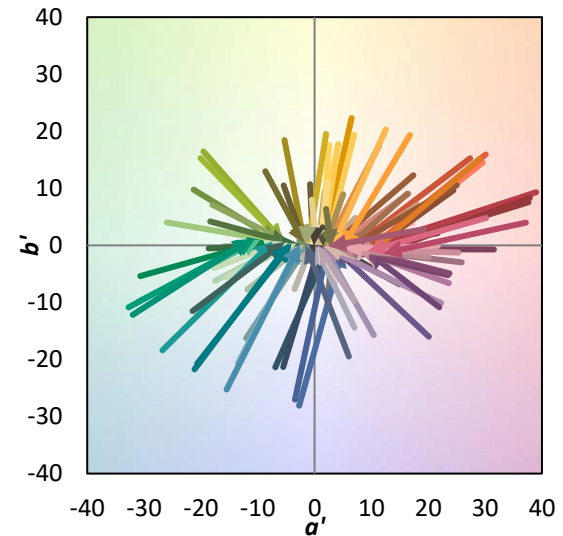
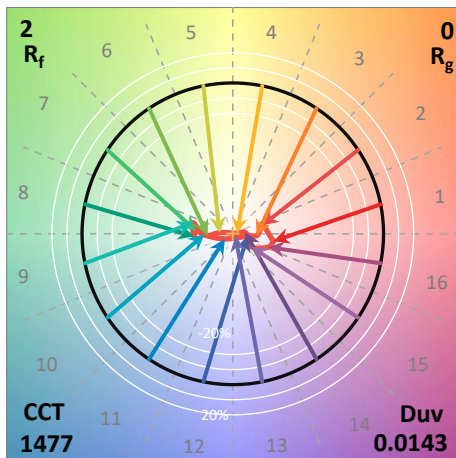
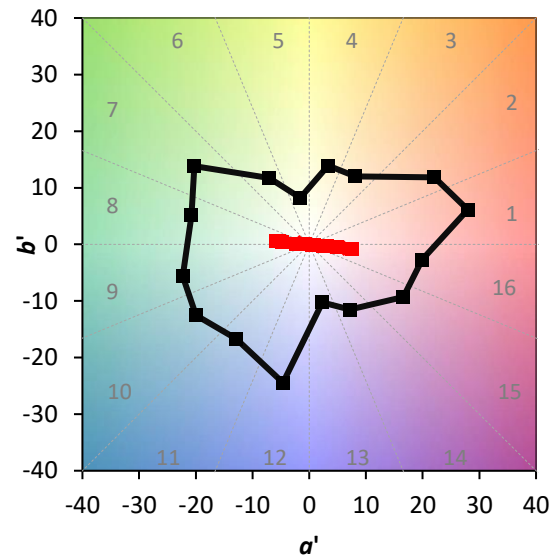
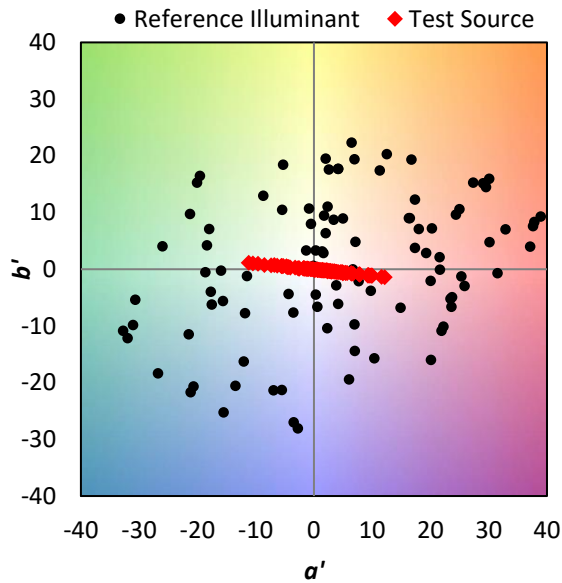
TM-30-18

Summary

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

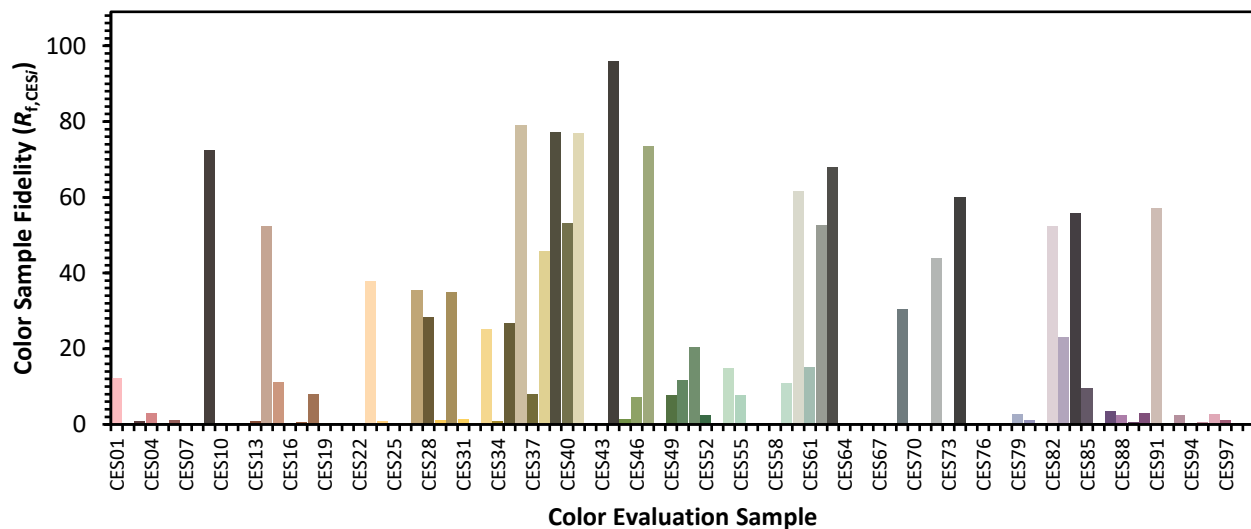


Color Vector Graphics

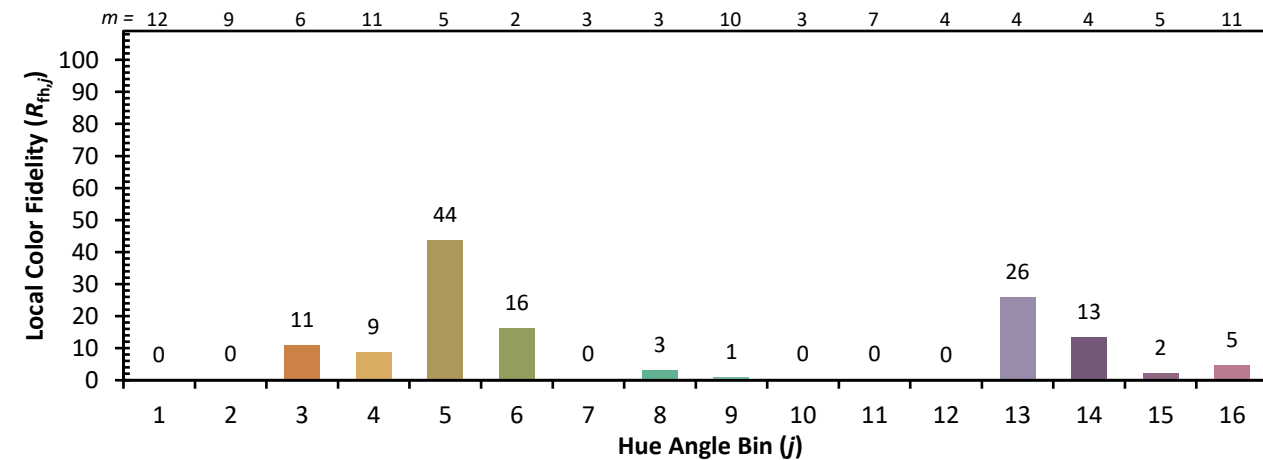
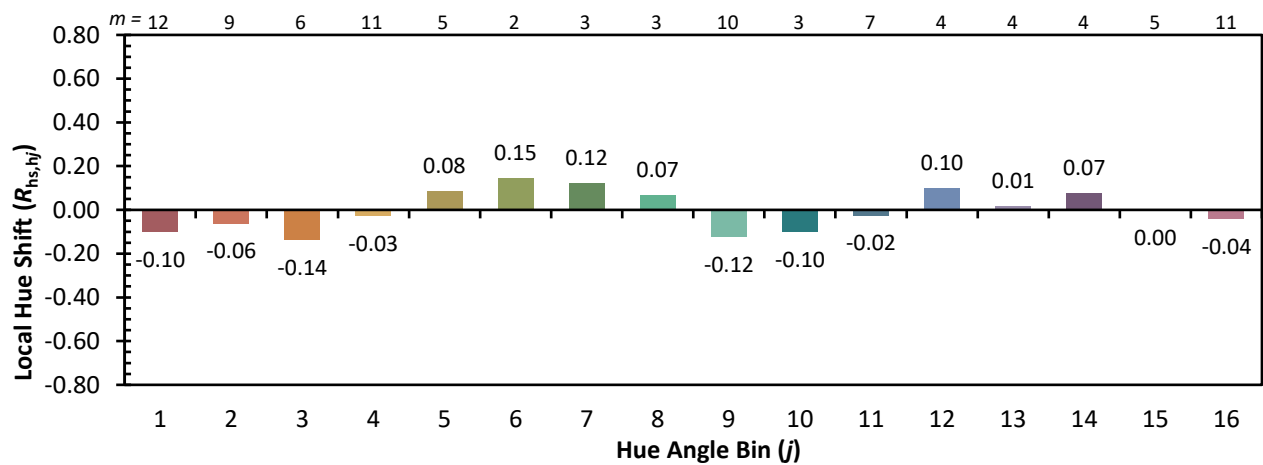
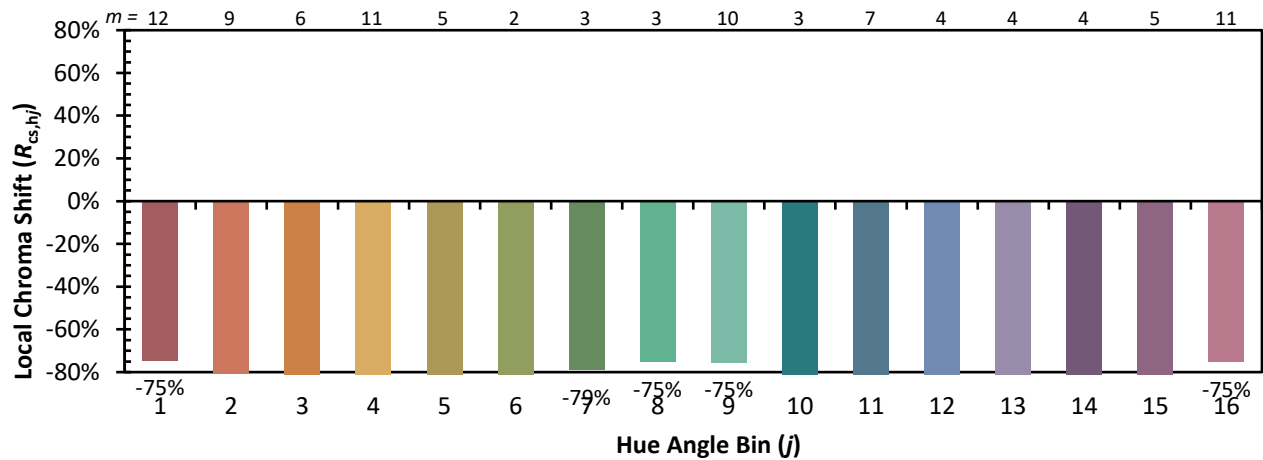


Individual Sample Fidelity Index ($R_{f,i}$)

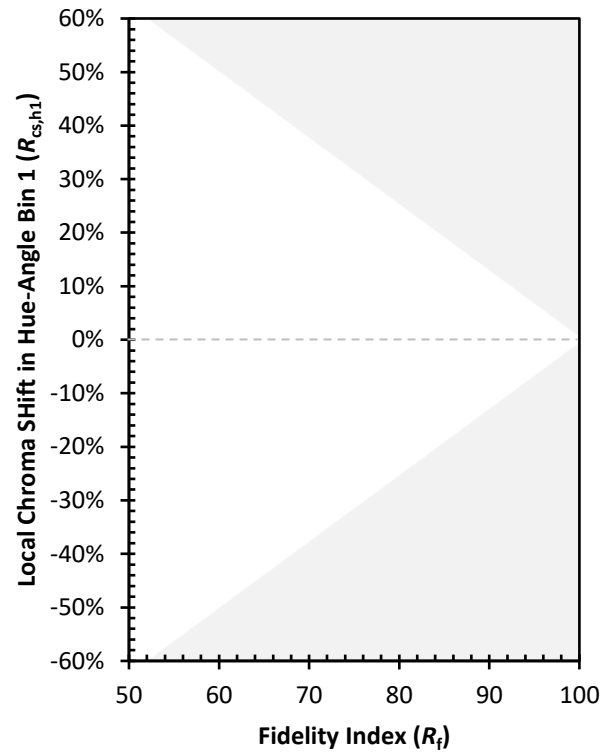
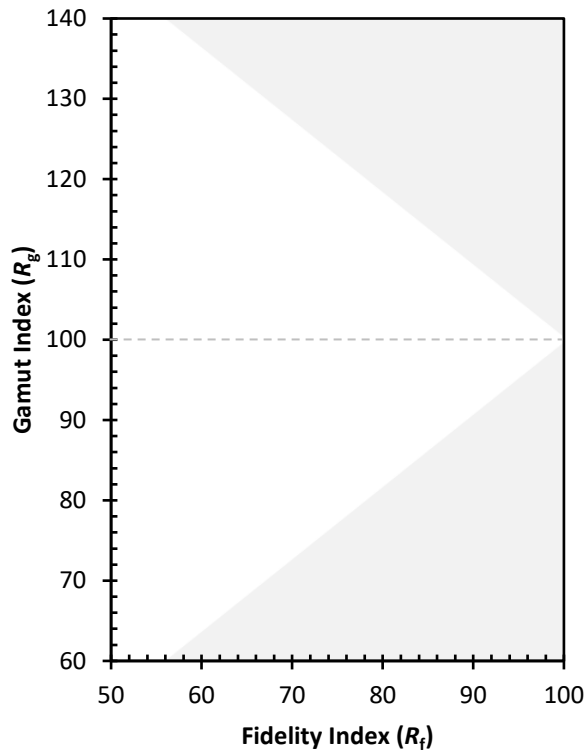
CES01 = 90	CES26 = 0	CES51 = 20	CES76 = 0
CES02 = 70	CES27 = 35	CES52 = 3	CES77 = 0
CES03 = 31	CES28 = 28	CES53 = 0	CES78 = 0
CES04 = 77	CES29 = 1	CES54 = 15	CES79 = 3
CES05 = 52	CES30 = 35	CES55 = 8	CES80 = 1
CES06 = 56	CES31 = 1	CES56 = 0	CES81 = 0
CES07 = 42	CES32 = 0	CES57 = 0	CES82 = 52
CES08 =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