

Classified
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: HALO

Report Number: P926864

Luminaire Tested: **HLBPH406FS6-940**

Issue Date: 12/11/2024



Test Information

Test Method: LM-79-08
Report Number: P926864
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 12/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLBPH406FS6-940
Description: HALO HLBPH SLIM EDGE 4 inch 90 CRI COLOR SELECTABLE FIXTURE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

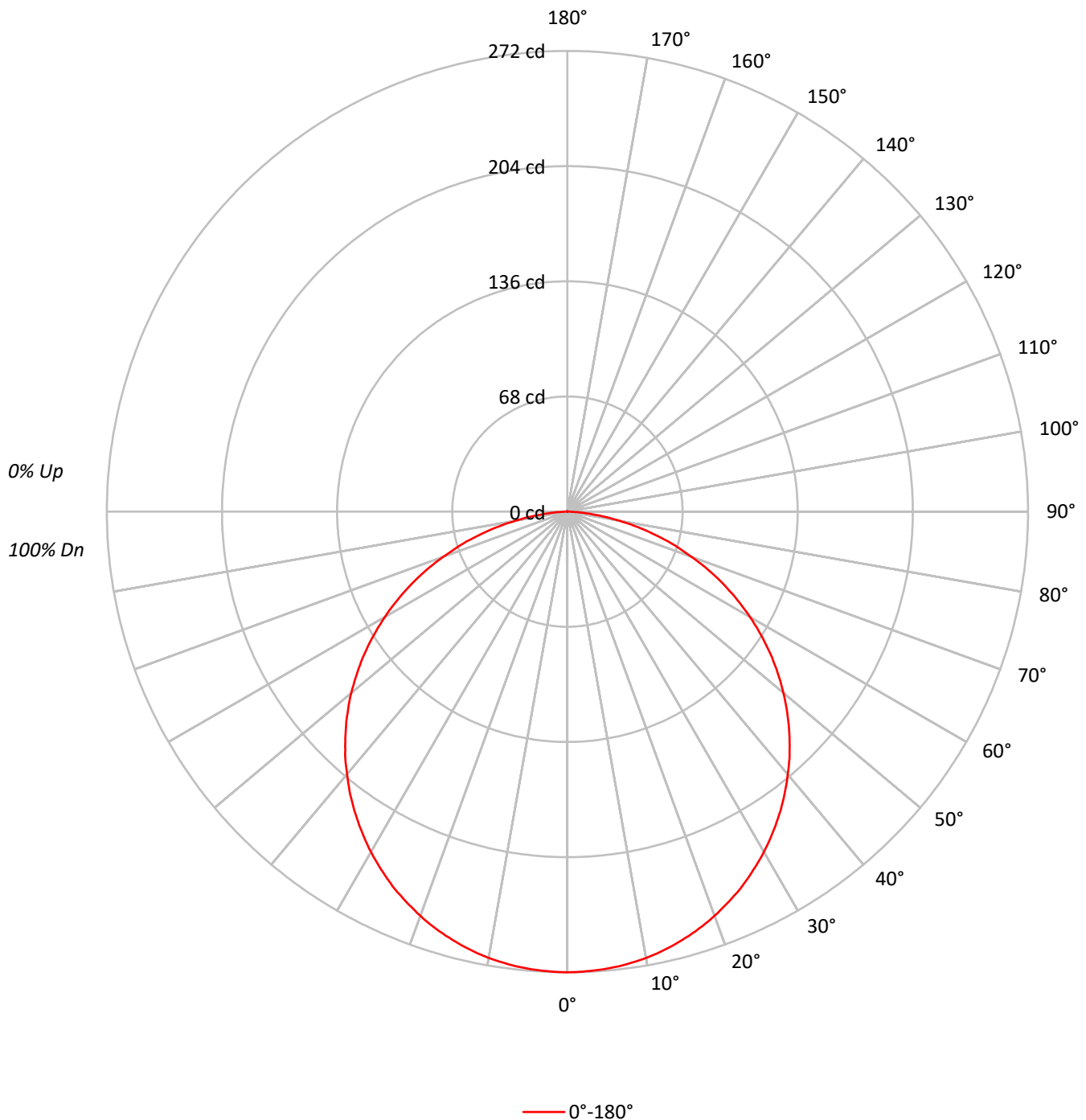
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 795.2 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Circular (Dia: 0.3' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	104	99	96	106	101	98	94	97	94	91		93	91	88		90	88	86		83
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60		58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52		49
5	75	62	53	47	73	61	53	46	59	52	46		57	50	45		55	49	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	39	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31		29
9	56	42	34	29	55	42	34	29	41	33	28		40	33	28		39	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41420
5°	41394
10°	41378
15°	41289
20°	41161
25°	41014
30°	40794
35°	40544
40°	40254
45°	39905
50°	39468
55°	38814
60°	37978
65°	36681
70°	34773
75°	32242
80°	27536
85°	19918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	3.2
10°-20°	73.9	9.3
20°-30°	112.5	14.1
30°-40°	136.5	17.2
40°-50°	142.9	18.0
50°-60°	130.6	16.4
60°-70°	100.6	12.7
70°-80°	57.7	7.3
80°-90°	14.1	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.1	0.0
140°-150°	0.1	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	212.1	26.7
0°-40°	348.6	43.8
0°-60°	622.2	78.2
0°-90°	794.6	99.9
90°-120°	0.1	0.0
90°-150°	0.4	0.1
90°-180°	1.0	0.1
0°-180°	795.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	272	
5°	271	26
15°	262	74
25°	244	112
35°	218	136
45°	185	143
55°	146	131
65°	102	101
75°	55	58
85°	11	13
90°	0	1
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	272.0
0.5°	271.9
1°	271.9
1.5°	271.8
2°	271.7
2.5°	271.6
3°	271.5
3.5°	271.3
4°	271.2
4.5°	271.0
5°	270.8
5.5°	270.6
6°	270.4
6.5°	270.2
7°	269.8
7.5°	269.5
8°	269.1
8.5°	268.8
9°	268.4
9.5°	268.0
10°	267.6
10.5°	267.1
11°	266.6
11.5°	266.1
12°	265.5
12.5°	265.0
13°	264.4
13.5°	263.8
14°	263.2
14.5°	262.5
15°	261.9
15.5°	261.1
16°	260.5
16.5°	259.7
17°	259.0
17.5°	258.2
18°	257.4
18.5°	256.6
19°	255.8
19.5°	254.9
20°	254.0
20.5°	253.1
21°	252.1
21.5°	251.1
22°	250.2



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CANDELA DISTRIBUTION (continued):

0°	
22.5°	249.2
23°	248.2
23.5°	247.2
24°	246.2
24.5°	245.2
25°	244.1
25.5°	242.9
26°	241.8
26.5°	240.6
27°	239.4
27.5°	238.2
28°	237.1
28.5°	235.8
29°	234.6
29.5°	233.3
30°	232.0
30.5°	230.8
31°	229.4
31.5°	228.1
32°	226.7
32.5°	225.3
33°	223.9
33.5°	222.5
34°	221.0
34.5°	219.6
35°	218.1
35.5°	216.7
36°	215.1
36.5°	213.6
37°	212.1
37.5°	210.6
38°	209.0
38.5°	207.4
39°	205.8
39.5°	204.1
40°	202.5
40.5°	200.9
41°	199.3
41.5°	197.6
42°	196.0
42.5°	194.3
43°	192.4
43.5°	190.7
44°	188.9
44.5°	187.1



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CANDELA DISTRIBUTION (continued):

	0°
45°	185.3
45.5°	183.5
46°	181.7
46.5°	179.9
47°	178.0
47.5°	176.1
48°	174.2
48.5°	172.4
49°	170.5
49.5°	168.6
50°	166.6
50.5°	164.6
51°	162.6
51.5°	160.6
52°	158.6
52.5°	156.6
53°	154.5
53.5°	152.4
54°	150.4
54.5°	148.4
55°	146.2
55.5°	144.1
56°	142.0
56.5°	139.9
57°	137.8
57.5°	135.6
58°	133.4
58.5°	131.2
59°	129.0
59.5°	126.8
60°	124.7
60.5°	122.4
61°	120.2
61.5°	117.9
62°	115.6
62.5°	113.3
63°	111.1
63.5°	108.7
64°	106.5
64.5°	104.1
65°	101.8
65.5°	99.6
66°	97.2
66.5°	94.8
67°	92.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	90.1
68°	87.7
68.5°	85.3
69°	83.0
69.5°	80.5
70°	78.1
70.5°	75.7
71°	73.4
71.5°	71.1
72°	68.8
72.5°	66.6
73°	64.3
73.5°	62.1
74°	59.7
74.5°	57.2
75°	54.8
75.5°	52.4
76°	50.0
76.5°	47.6
77°	45.2
77.5°	42.9
78°	40.6
78.5°	38.2
79°	35.9
79.5°	33.6
80°	31.4
80.5°	29.2
81°	26.9
81.5°	24.9
82°	22.8
82.5°	20.7
83°	18.7
83.5°	16.8
84°	15.0
84.5°	13.1
85°	11.4
85.5°	9.8
86°	8.2
86.5°	7.0
87°	5.8
87.5°	4.6
88°	3.4
88.5°	2.2
89°	1.4
89.5°	0.7



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.2
90.5°	0.0
91°	0.0
91.5°	0.0
92°	0.0
92.5°	0.0
93°	0.0
93.5°	0.0
94°	0.0
94.5°	0.0
95°	0.0
95.5°	0.0
96°	0.0
96.5°	0.0
97°	0.0
97.5°	0.0
98°	0.0
98.5°	0.0
99°	0.0
99.5°	0.0
100°	0.0
100.5°	0.0
101°	0.0
101.5°	0.0
102°	0.0
102.5°	0.0
103°	0.0
103.5°	0.0
104°	0.0
104.5°	0.0
105°	0.0
105.5°	0.0
106°	0.0
106.5°	0.0
107°	0.0
107.5°	0.0
108°	0.0
108.5°	0.0
109°	0.1
109.5°	0.1
110°	0.1
110.5°	0.1
111°	0.1
111.5°	0.1
112°	0.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.1
113°	0.1
113.5°	0.1
114°	0.1
114.5°	0.1
115°	0.1
115.5°	0.1
116°	0.1
116.5°	0.1
117°	0.1
117.5°	0.1
118°	0.1
118.5°	0.1
119°	0.1
119.5°	0.1
120°	0.1
120.5°	0.1
121°	0.1
121.5°	0.1
122°	0.1
122.5°	0.1
123°	0.1
123.5°	0.1
124°	0.1
124.5°	0.1
125°	0.1
125.5°	0.1
126°	0.1
126.5°	0.1
127°	0.1
127.5°	0.1
128°	0.1
128.5°	0.1
129°	0.1
129.5°	0.1
130°	0.1
130.5°	0.1
131°	0.1
131.5°	0.1
132°	0.1
132.5°	0.1
133°	0.1
133.5°	0.1
134°	0.1
134.5°	0.1



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CANDELA DISTRIBUTION (continued):

	0°
135°	0.1
135.5°	0.1
136°	0.1
136.5°	0.2
137°	0.2
137.5°	0.2
138°	0.2
138.5°	0.2
139°	0.2
139.5°	0.2
140°	0.2
140.5°	0.2
141°	0.2
141.5°	0.2
142°	0.2
142.5°	0.2
143°	0.2
143.5°	0.2
144°	0.2
144.5°	0.2
145°	0.2
145.5°	0.2
146°	0.2
146.5°	0.2
147°	0.2
147.5°	0.2
148°	0.2
148.5°	0.2
149°	0.2
149.5°	0.2
150°	0.2
150.5°	0.2
151°	0.2
151.5°	0.2
152°	0.2
152.5°	0.2
153°	0.2
153.5°	0.2
154°	0.2
154.5°	0.2
155°	0.2
155.5°	0.2
156°	0.2
156.5°	0.2
157°	0.2



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CANDELA DISTRIBUTION (continued):

	0°
157.5°	0.2
158°	0.2
158.5°	0.2
159°	0.2
159.5°	0.2
160°	0.2
160.5°	0.2
161°	0.2
161.5°	0.2
162°	0.2
162.5°	0.2
163°	0.2
163.5°	0.2
164°	0.2
164.5°	0.2
165°	0.2
165.5°	0.2
166°	0.2
166.5°	0.2
167°	0.2
167.5°	0.2
168°	0.2
168.5°	0.2
169°	0.2
169.5°	0.2
170°	0.2
170.5°	0.2
171°	0.2
171.5°	0.2
172°	0.2
172.5°	0.2
173°	0.2
173.5°	0.2
174°	0.2
174.5°	0.2
175°	0.2
175.5°	0.2
176°	0.2
176.5°	0.2
177°	0.2
177.5°	0.2
178°	0.2
178.5°	0.2
179°	0.2
179.5°	0.2

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Scaled Data Report



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CANDELA DISTRIBUTION (continued):

180° | $\overset{0^\circ}{\rule{1.5cm}{0.4pt}}$ 0.2

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

Report Prepared for

Cooper Lighting Solutions

Halo Home

Report Number: SP1-2501-315-4

Test Date: 01/13/2025

Luminaire Tested: HLBPH406FS6-4000K

Data in this report applies to families of products including HLBPH406FS6-4000K

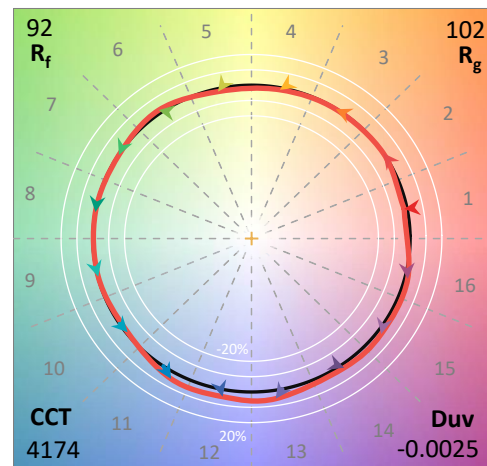
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-315-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/15/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Halo Home
 Catalog Number: **HLBPH406FS6-4000K**
 Description: HLBPH 4 INCH 6 CCT FIXTURE@4000K

Spectral Parameters

CCT (K): 4174
 CIE u' : 0.2236
 CIE v' : 0.4954
 Duv: -0.0025
 CIE x: 0.3716
 CIE y: 0.3659
 CIE z: 0.2625
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 580
 Purity: 21.30207
 R_f: 91.7
 R_g: 101.6

CRI (Ra): 97.2
 R1: 97.6
 R2: 98.6
 R3: 92.1
 R4: 97.7
 R5: 98.3
 R6: 94.8
 R7: 98.8
 R8: 99.3
 R9: 96.0
 R10: 92.9
 R11: 94.9
 R12: 73.8
 R13: 98.8
 R14: 94.2
 R15: 96.6



Test Conditions

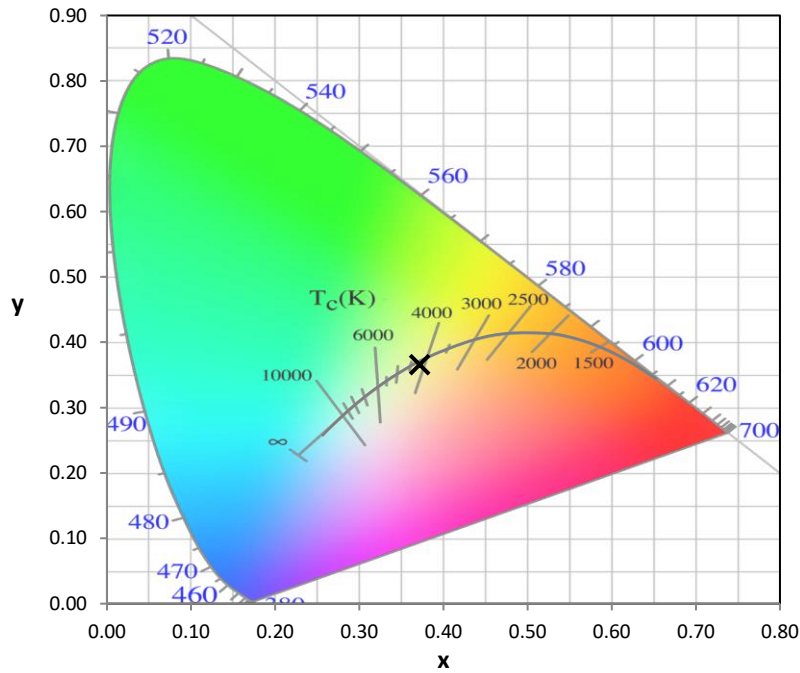
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.4

REPORT NUMBER: SP1-2501-315-4

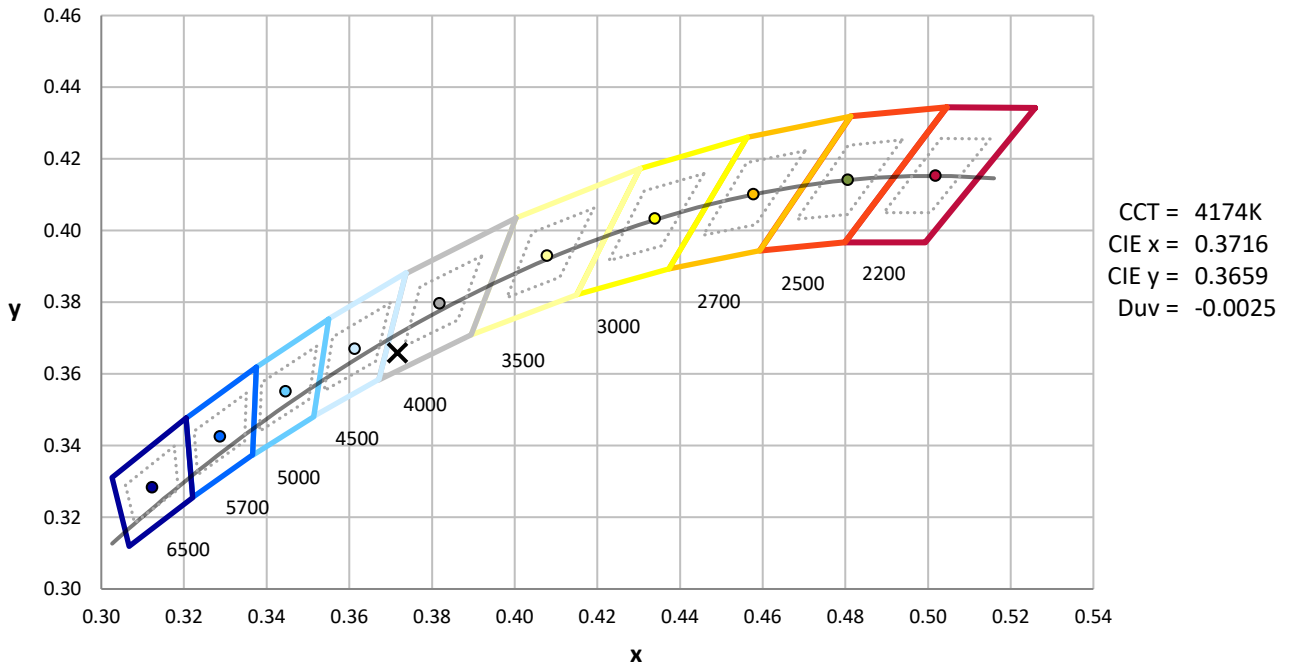
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



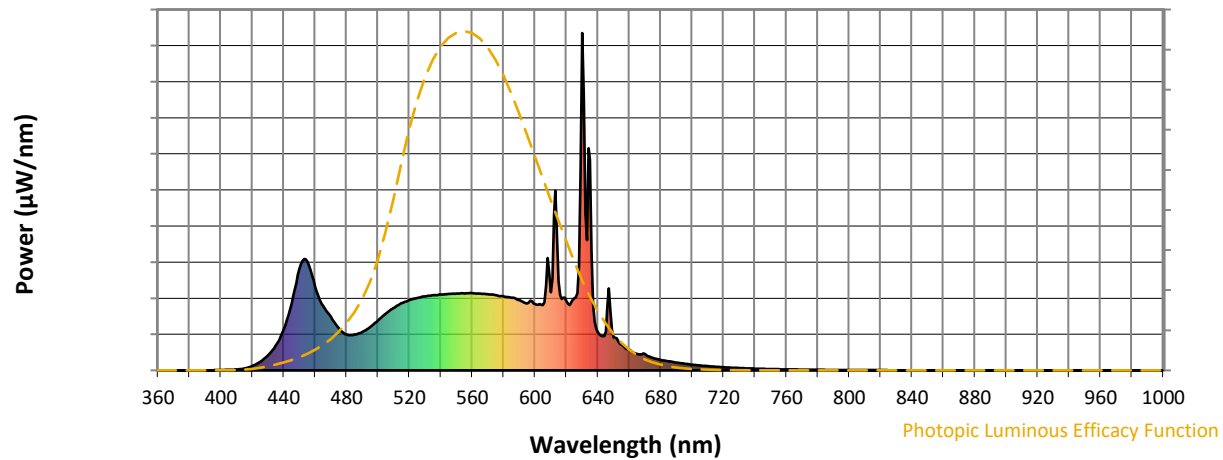
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

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Photopic Flux vs. Wavelength

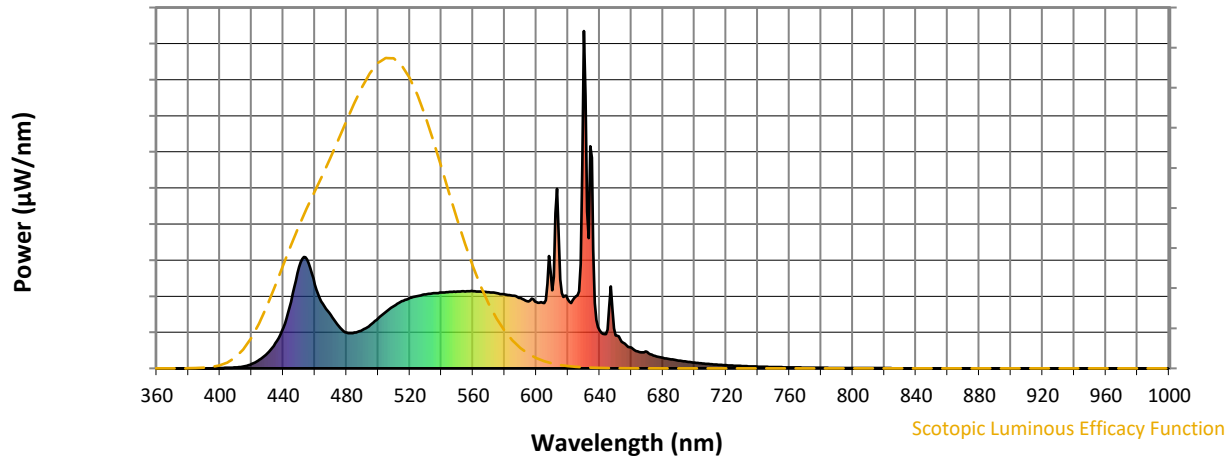


Photopic Lumens: NR

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	113	NR	620	204	NR	750	4	NR	880	0	NR
365	0	NR	495	128	NR	625	213	NR	755	3	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	168	NR	635	624	NR	765	3	NR	895	0	NR
380	0	NR	510	185	NR	640	113	NR	770	2	NR	900	0	NR
385	0	NR	515	199	NR	645	115	NR	775	2	NR	905	0	NR
390	0	NR	520	208	NR	650	98	NR	780	2	NR	910	0	NR
395	0	NR	525	214	NR	655	76	NR	785	1	NR	915	0	NR
400	1	NR	530	219	NR	660	62	NR	790	1	NR	920	0	NR
405	2	NR	535	223	NR	665	49	NR	795	1	NR	925	0	NR
410	3	NR	540	225	NR	670	49	NR	800	1	NR	930	0	NR
415	5	NR	545	226	NR	675	37	NR	805	1	NR	935	0	NR
420	13	NR	550	228	NR	680	31	NR	810	1	NR	940	0	NR
425	25	NR	555	228	NR	685	27	NR	815	1	NR	945	0	NR
430	45	NR	560	228	NR	690	23	NR	820	1	NR	950	0	NR
435	75	NR	565	228	NR	695	20	NR	825	0	NR	955	0	NR
440	121	NR	570	226	NR	700	17	NR	830	0	NR	960	0	NR
445	198	NR	575	223	NR	705	15	NR	835	0	NR	965	0	NR
450	300	NR	580	220	NR	710	13	NR	840	0	NR	970	0	NR
455	323	NR	585	216	NR	715	11	NR	845	0	NR	975	0	NR
460	249	NR	590	209	NR	720	9	NR	850	0	NR	980	0	NR
465	191	NR	595	199	NR	725	8	NR	855	0	NR	985	0	NR
470	158	NR	600	196	NR	730	7	NR	860	0	NR	990	0	NR
475	125	NR	605	194	NR	735	6	NR	865	0	NR	995	0	NR
480	106	NR	610	232	NR	740	5	NR	870	0	NR	1000	0	NR
485	106	NR	615	264	NR	745	5	NR	875	0	NR			

REPORT NUMBER: SP1-2501-315-4

Scotopic Flux vs. Wavelength



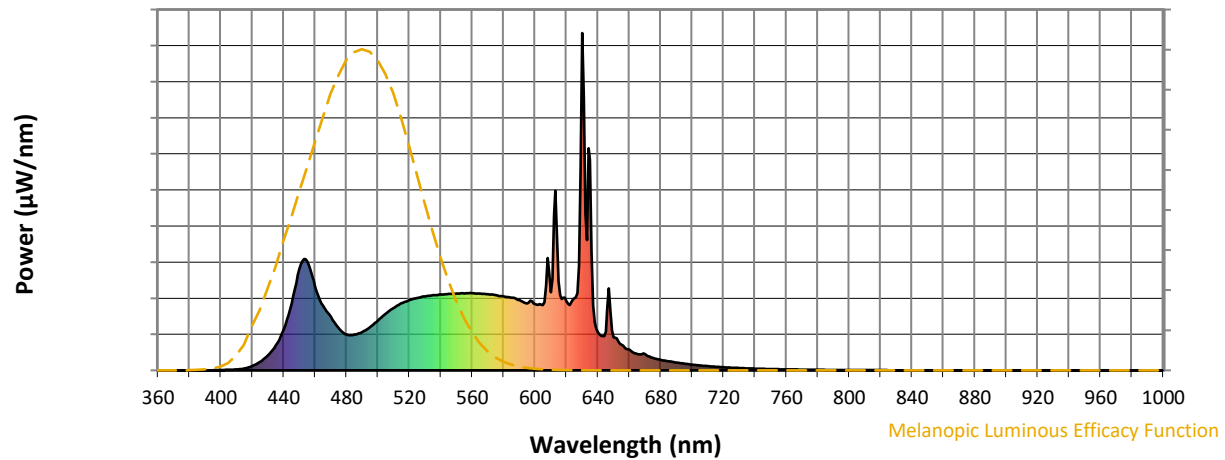
Scotopic Lumens: NR

S/P: 1.87

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	113	NR	620	204	NR	750	4	NR	880	0	NR
365	0	NR	495	128	NR	625	213	NR	755	3	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	168	NR	635	624	NR	765	3	NR	895	0	NR
380	0	NR	510	185	NR	640	113	NR	770	2	NR	900	0	NR
385	0	NR	515	199	NR	645	115	NR	775	2	NR	905	0	NR
390	0	NR	520	208	NR	650	98	NR	780	2	NR	910	0	NR
395	0	NR	525	214	NR	655	76	NR	785	1	NR	915	0	NR
400	1	NR	530	219	NR	660	62	NR	790	1	NR	920	0	NR
405	2	NR	535	223	NR	665	49	NR	795	1	NR	925	0	NR
410	3	NR	540	225	NR	670	49	NR	800	1	NR	930	0	NR
415	5	NR	545	226	NR	675	37	NR	805	1	NR	935	0	NR
420	13	NR	550	228	NR	680	31	NR	810	1	NR	940	0	NR
425	25	NR	555	228	NR	685	27	NR	815	1	NR	945	0	NR
430	45	NR	560	228	NR	690	23	NR	820	1	NR	950	0	NR
435	75	NR	565	228	NR	695	20	NR	825	0	NR	955	0	NR
440	121	NR	570	226	NR	700	17	NR	830	0	NR	960	0	NR
445	198	NR	575	223	NR	705	15	NR	835	0	NR	965	0	NR
450	300	NR	580	220	NR	710	13	NR	840	0	NR	970	0	NR
455	323	NR	585	216	NR	715	11	NR	845	0	NR	975	0	NR
460	249	NR	590	209	NR	720	9	NR	850	0	NR	980	0	NR
465	191	NR	595	199	NR	725	8	NR	855	0	NR	985	0	NR
470	158	NR	600	196	NR	730	7	NR	860	0	NR	990	0	NR
475	125	NR	605	194	NR	735	6	NR	865	0	NR	995	0	NR
480	106	NR	610	232	NR	740	5	NR	870	0	NR	1000	0	NR
485	106	NR	615	264	NR	745	5	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.95

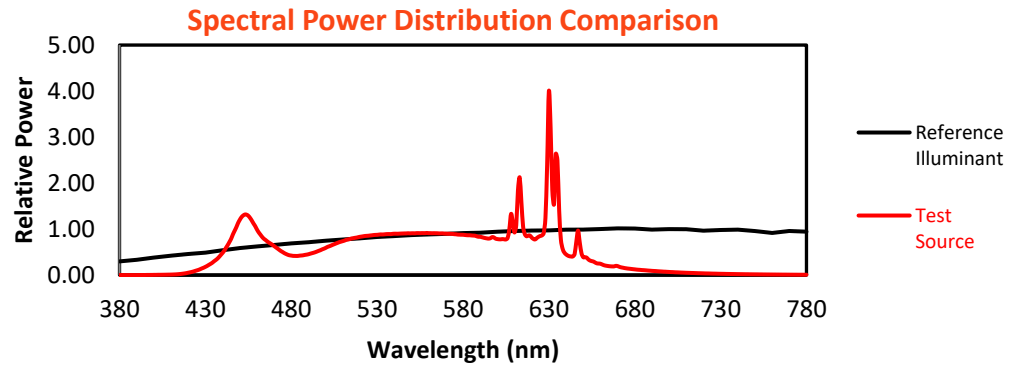
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	113	NR	620	204	NR	750	4	NR	880	0	NR
365	0	NR	495	128	NR	625	213	NR	755	3	NR	885	0	NR
370	0	NR	500	148	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	168	NR	635	624	NR	765	3	NR	895	0	NR
380	0	NR	510	185	NR	640	113	NR	770	2	NR	900	0	NR
385	0	NR	515	199	NR	645	115	NR	775	2	NR	905	0	NR
390	0	NR	520	208	NR	650	98	NR	780	2	NR	910	0	NR
395	0	NR	525	214	NR	655	76	NR	785	1	NR	915	0	NR
400	1	NR	530	219	NR	660	62	NR	790	1	NR	920	0	NR
405	2	NR	535	223	NR	665	49	NR	795	1	NR	925	0	NR
410	3	NR	540	225	NR	670	49	NR	800	1	NR	930	0	NR
415	5	NR	545	226	NR	675	37	NR	805	1	NR	935	0	NR
420	13	NR	550	228	NR	680	31	NR	810	1	NR	940	0	NR
425	25	NR	555	228	NR	685	27	NR	815	1	NR	945	0	NR
430	45	NR	560	228	NR	690	23	NR	820	1	NR	950	0	NR
435	75	NR	565	228	NR	695	20	NR	825	0	NR	955	0	NR
440	121	NR	570	226	NR	700	17	NR	830	0	NR	960	0	NR
445	198	NR	575	223	NR	705	15	NR	835	0	NR	965	0	NR
450	300	NR	580	220	NR	710	13	NR	840	0	NR	970	0	NR
455	323	NR	585	216	NR	715	11	NR	845	0	NR	975	0	NR
460	249	NR	590	209	NR	720	9	NR	850	0	NR	980	0	NR
465	191	NR	595	199	NR	725	8	NR	855	0	NR	985	0	NR
470	158	NR	600	196	NR	730	7	NR	860	0	NR	990	0	NR
475	125	NR	605	194	NR	735	6	NR	865	0	NR	995	0	NR
480	106	NR	610	232	NR	740	5	NR	870	0	NR	1000	0	NR
485	106	NR	615	264	NR	745	5	NR	875	0	NR			

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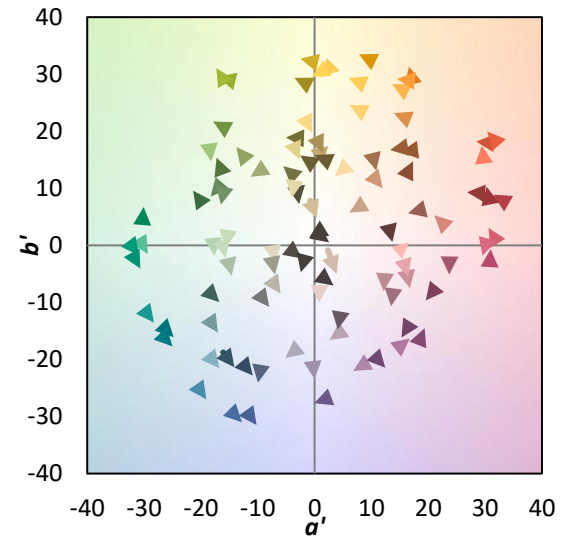
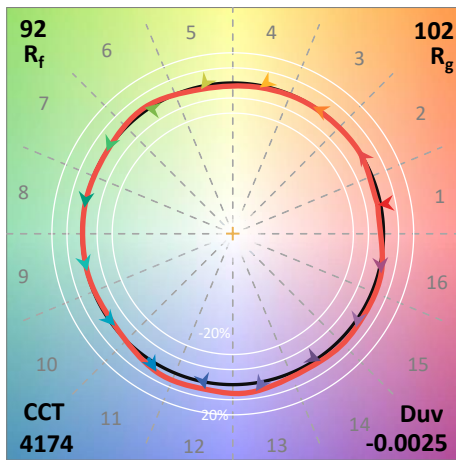
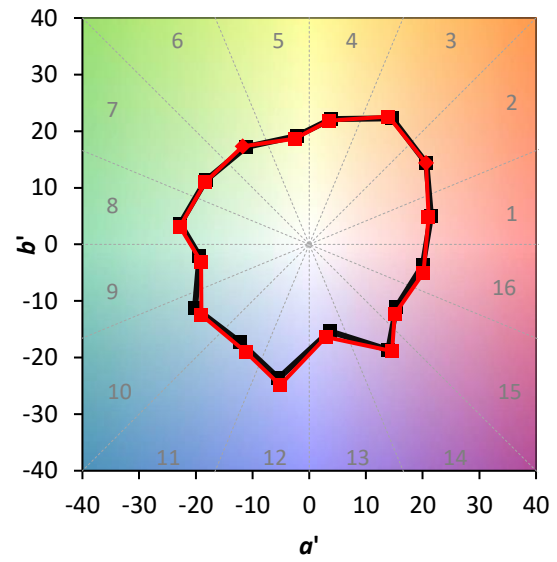
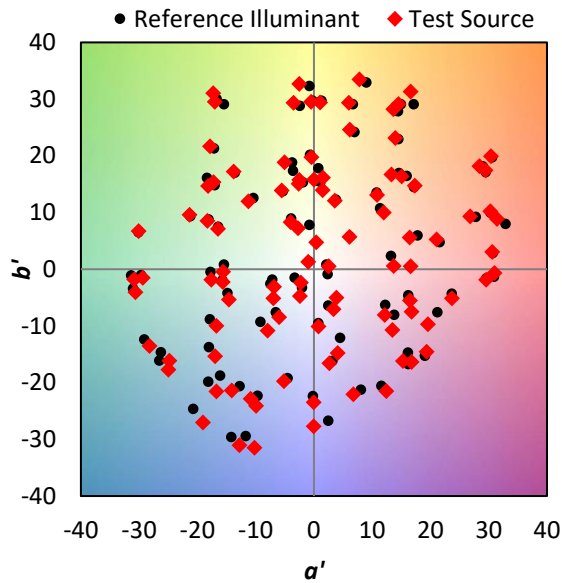
TM-30-18

Summary

$R_f = 91.7$
 $R_g = 101.6$
 $CIE R_a = 97.2$
 $R_g = 96.0$

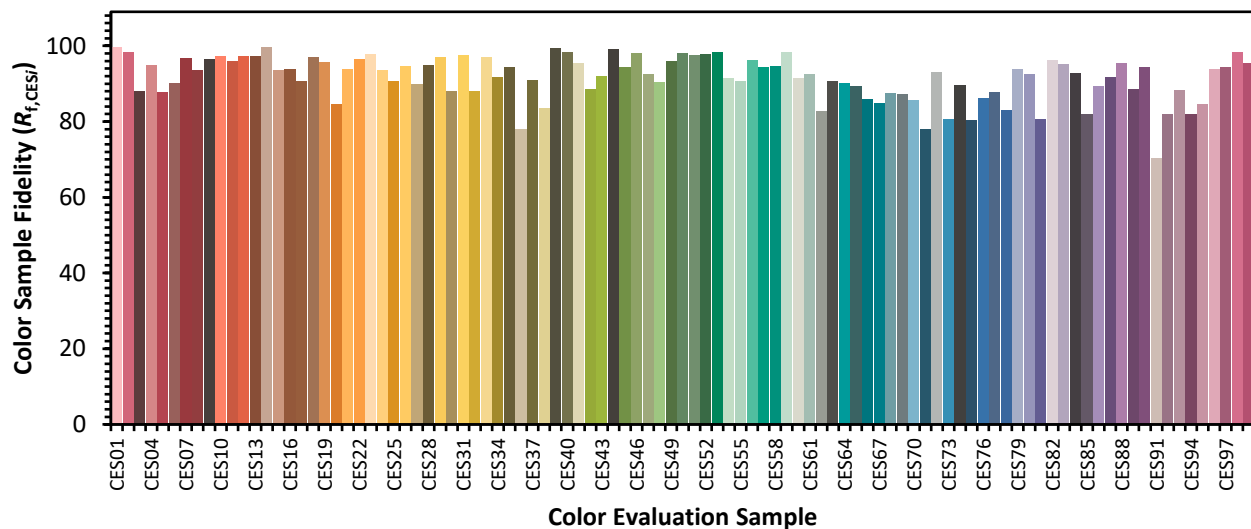


Color Vector Graphics

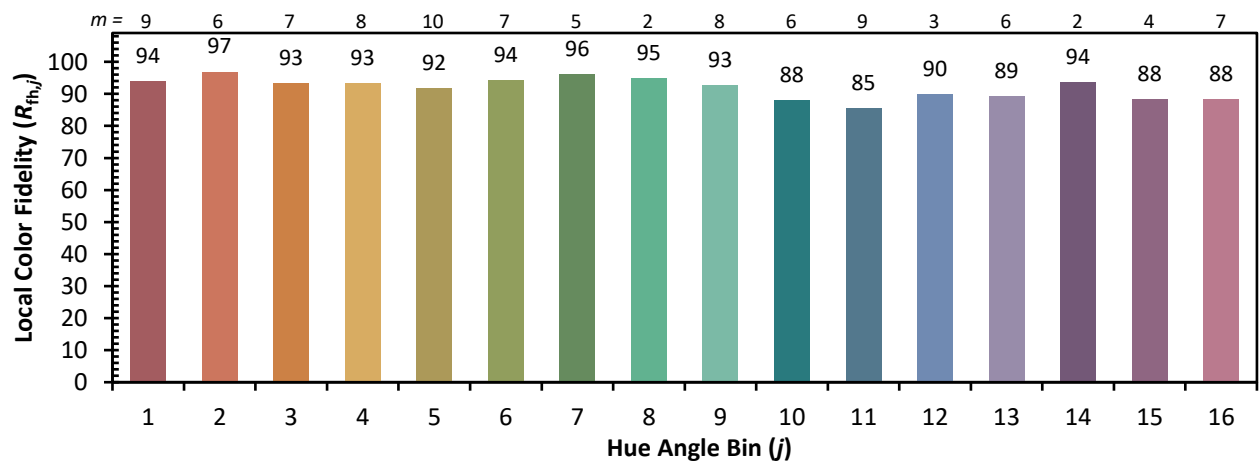
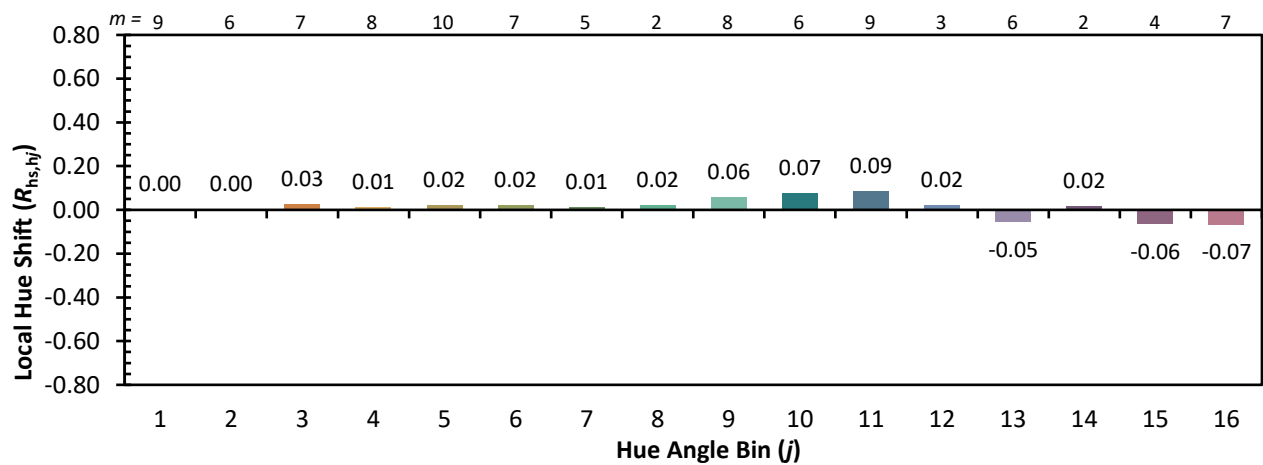
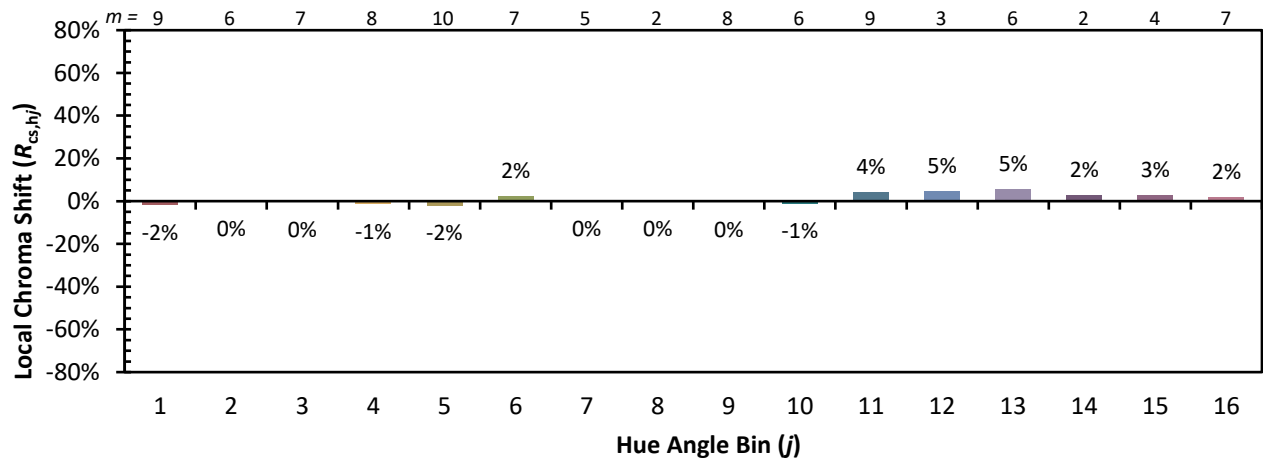


Individual Sample Fidelity Index ($R_{f,i}$)

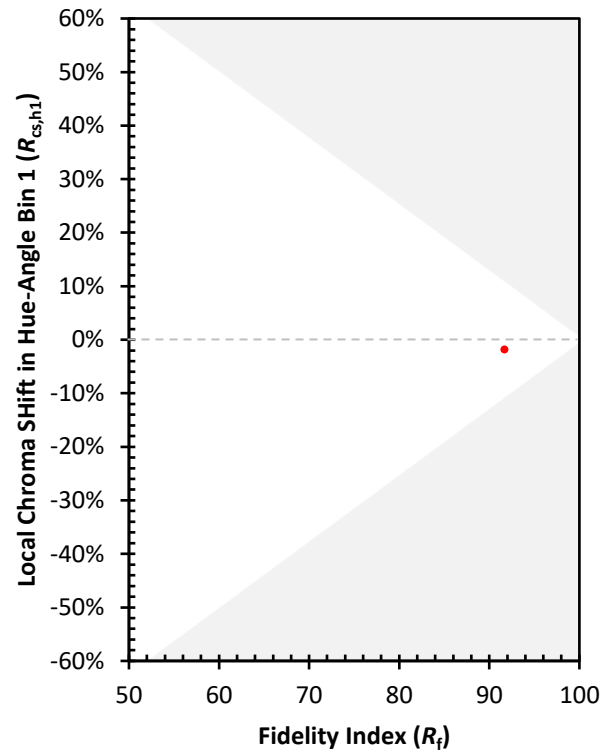
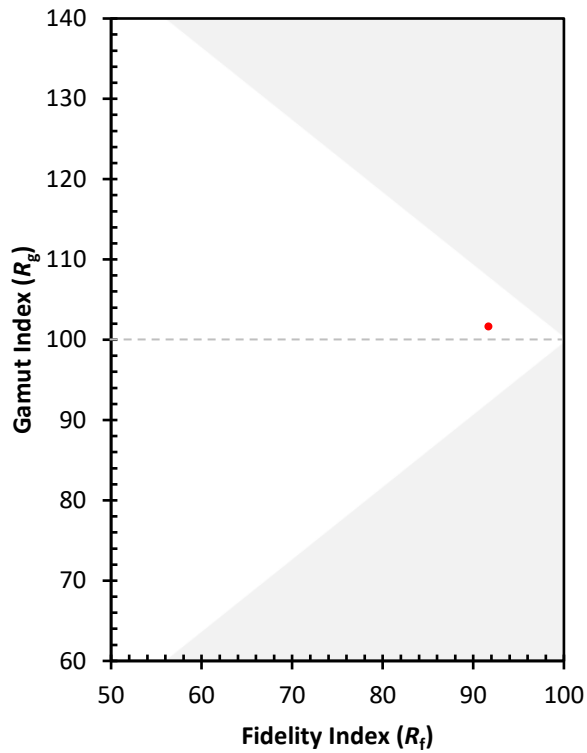
CES01 = 85	CES26 = 95	CES51 = 98	CES76 = 86
CES02 = 62	CES27 = 90	CES52 = 98	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 98	CES78 = 83
CES04 = 69	CES29 = 97	CES54 = 92	CES79 = 94
CES05 = 49	CES30 = 88	CES55 = 91	CES80 = 92
CES06 = 50	CES31 = 98	CES56 = 96	CES81 = 81
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 97	CES58 = 95	CES83 = 95
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 93
CES10 = 74	CES35 = 94	CES60 = 91	CES85 = 82
CES11 = 57	CES36 = 78	CES61 = 92	CES86 = 89
CES12 = 63	CES37 = 91	CES62 = 83	CES87 = 92
CES13 = 43	CES38 = 83	CES63 = 91	CES88 = 95
CES14 = 74	CES39 = 100	CES64 = 90	CES89 = 88
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 94
CES16 = 47	CES41 = 95	CES66 = 86	CES91 = 70
CES17 = 49	CES42 = 89	CES67 = 85	CES92 = 82
CES18 = 56	CES43 = 92	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 82
CES20 = 66	CES45 = 94	CES70 = 86	CES95 = 85
CES21 = 85	CES46 = 98	CES71 = 78	CES96 = 94
CES22 = 77	CES47 = 93	CES72 = 93	CES97 = 94
CES23 = 91	CES48 = 90	CES73 = 81	CES98 = 98
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 95
CES25 = 71	CES50 = 98	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)