

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: P926870

Luminaire Tested: **HLBPH609FS6-950**

Issue Date: 12/11/2024



Test Information

Test Method: LM-79-08
Report Number: P926870
Test Lab: LEADING TESTING LABORATORIES
Issue Date: 12/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HLBPH609FS6-950
Description: HALO HLBPH SLIM EDGE 6 inch 90 CRI COLOR SELECTABLE FIXTURE
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

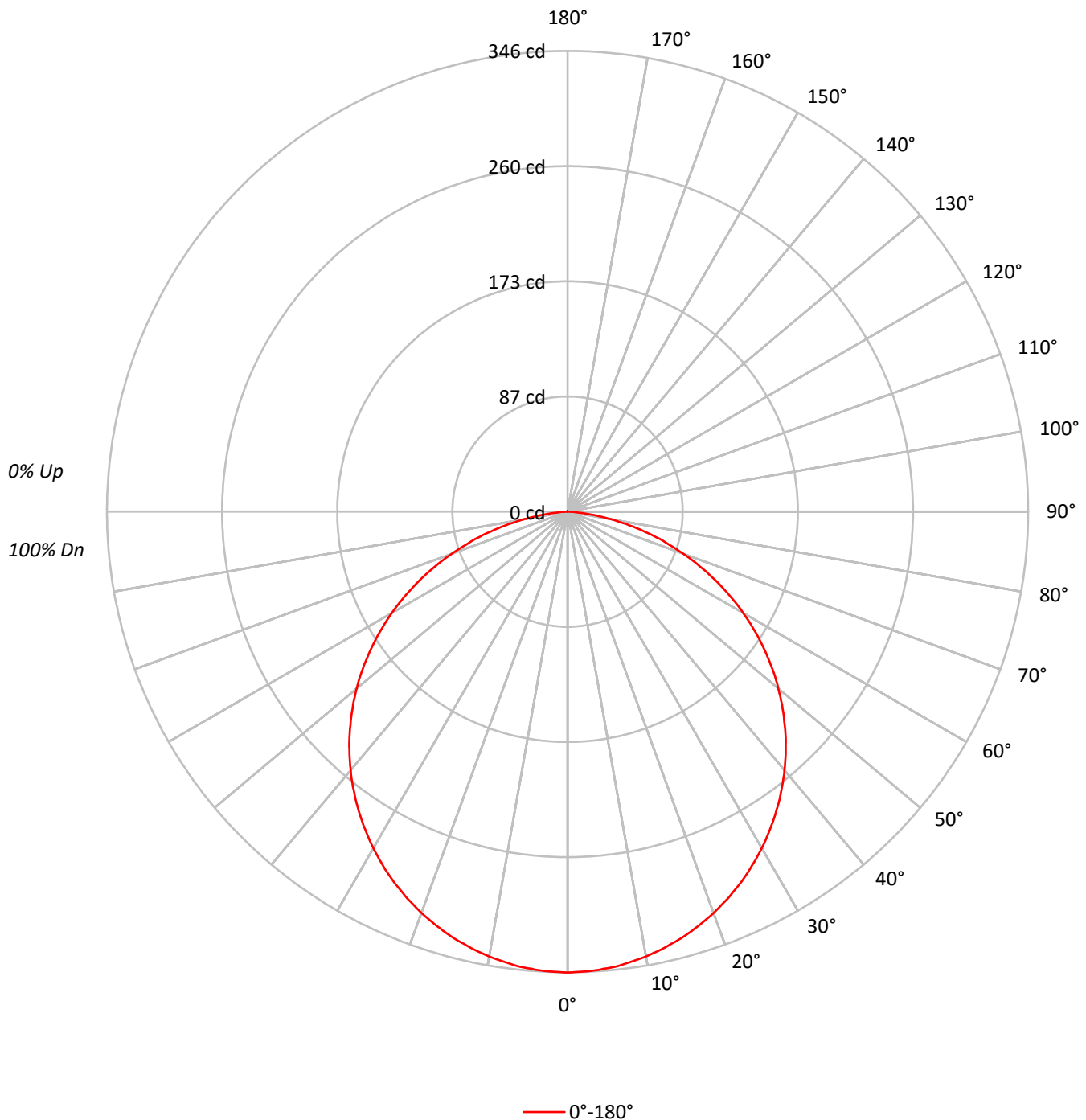
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 980.5 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.38
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	94	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	71	65	88	78	70	64	75	69	63		72	67	62		70
4	83	71	62	55	80	69	61	55	67	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51
7	65	51	43	36	63	51	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18979
5°	18941
10°	18887
15°	18808
20°	18715
25°	18612
30°	18471
35°	18317
40°	18141
45°	17924
50°	17628
55°	17251
60°	16720
65°	15968
70°	14826
75°	13280
80°	10576
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	3.3
10°-20°	93.5	9.5
20°-30°	141.7	14.5
30°-40°	171.2	17.5
40°-50°	178.2	18.2
50°-60°	161.2	16.4
60°-70°	121.6	12.4
70°-80°	66.2	6.7
80°-90°	13.4	1.4
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	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°	267.9	27.3
0°-40°	439.2	44.8
0°-60°	778.6	79.4
0°-90°	979.7	99.9
90°-120°	0.2	0.0
90°-150°	0.5	0.1
90°-180°	1.0	0.1
0°-180°	980.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	346	
5°	344	33
15°	331	94
25°	308	142
35°	274	171
45°	231	178
55°	180	161
65°	123	122
75°	63	66
85°	10	13
90°	0	0
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°	346.2
0.5°	346.1
1°	346.0
1.5°	345.8
2°	345.7
2.5°	345.6
3°	345.4
3.5°	345.1
4°	344.9
4.5°	344.5
5°	344.2
5.5°	344.0
6°	343.6
6.5°	343.2
7°	342.7
7.5°	342.1
8°	341.5
8.5°	340.9
9°	340.3
9.5°	339.8
10°	339.3
10.5°	338.6
11°	337.8
11.5°	337.1
12°	336.4
12.5°	335.6
13°	334.8
13.5°	333.9
14°	333.1
14.5°	332.3
15°	331.4
15.5°	330.4
16°	329.4
16.5°	328.4
17°	327.4
17.5°	326.3
18°	325.2
18.5°	324.1
19°	323.1
19.5°	322.0
20°	320.8
20.5°	319.6
21°	318.3
21.5°	316.9
22°	315.8



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CANDELA DISTRIBUTION (continued):

	0°
22.5°	314.5
23°	313.1
23.5°	311.7
24°	310.3
24.5°	309.0
25°	307.7
25.5°	306.1
26°	304.7
26.5°	303.2
27°	301.6
27.5°	299.9
28°	298.3
28.5°	296.8
29°	295.1
29.5°	293.5
30°	291.8
30.5°	290.2
31°	288.4
31.5°	286.5
32°	284.8
32.5°	283.0
33°	281.2
33.5°	279.4
34°	277.5
34.5°	275.6
35°	273.7
35.5°	271.8
36°	270.0
36.5°	268.0
37°	265.9
37.5°	263.9
38°	261.9
38.5°	259.8
39°	257.8
39.5°	255.7
40°	253.5
40.5°	251.4
41°	249.2
41.5°	247.0
42°	244.9
42.5°	242.6
43°	240.4
43.5°	238.2
44°	235.9
44.5°	233.5



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CANDELA DISTRIBUTION (continued):

	0°
45°	231.2
45.5°	228.7
46°	226.3
46.5°	224.0
47°	221.7
47.5°	219.2
48°	216.8
48.5°	214.3
49°	211.8
49.5°	209.3
50°	206.7
50.5°	204.3
51°	201.8
51.5°	199.3
52°	196.6
52.5°	193.9
53°	191.3
53.5°	188.5
54°	185.9
54.5°	183.2
55°	180.5
55.5°	177.8
56°	175.0
56.5°	172.4
57°	169.5
57.5°	166.6
58°	163.9
58.5°	161.1
59°	158.3
59.5°	155.3
60°	152.5
60.5°	149.6
61°	146.9
61.5°	143.8
62°	140.9
62.5°	138.0
63°	134.9
63.5°	132.0
64°	129.0
64.5°	126.1
65°	123.1
65.5°	120.1
66°	117.1
66.5°	114.0
67°	111.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	107.8
68°	104.8
68.5°	101.8
69°	98.7
69.5°	95.5
70°	92.5
70.5°	89.5
71°	86.5
71.5°	83.3
72°	80.3
72.5°	77.2
73°	75.2
73.5°	72.2
74°	69.0
74.5°	65.9
75°	62.7
75.5°	59.7
76°	56.7
76.5°	53.7
77°	50.7
77.5°	47.8
78°	44.8
78.5°	42.0
79°	39.1
79.5°	36.2
80°	33.5
80.5°	30.8
81°	28.2
81.5°	25.6
82°	23.0
82.5°	20.6
83°	18.2
83.5°	16.1
84°	13.9
84.5°	11.8
85°	9.9
85.5°	8.2
86°	6.8
86.5°	5.5
87°	4.1
87.5°	2.8
88°	1.9
88.5°	1.2
89°	0.6
89.5°	0.2



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
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°	0.1
104.5°	0.1
105°	0.1
105.5°	0.1
106°	0.1
106.5°	0.1
107°	0.1
107.5°	0.1
108°	0.1
108.5°	0.1
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°	0.2
131°	0.2
131.5°	0.2
132°	0.2
132.5°	0.2
133°	0.2
133.5°	0.2
134°	0.2
134.5°	0.2



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CANDELA DISTRIBUTION (continued):

	0°
135°	0.2
135.5°	0.2
136°	0.2
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°	0.3
163°	0.3
163.5°	0.3
164°	0.3
164.5°	0.3
165°	0.3
165.5°	0.3
166°	0.3
166.5°	0.3
167°	0.3
167.5°	0.3
168°	0.3
168.5°	0.3
169°	0.3
169.5°	0.3
170°	0.3
170.5°	0.3
171°	0.3
171.5°	0.3
172°	0.3
172.5°	0.3
173°	0.3
173.5°	0.3
174°	0.3
174.5°	0.3
175°	0.3
175.5°	0.3
176°	0.3
176.5°	0.3
177°	0.3
177.5°	0.3
178°	0.3
178.5°	0.3
179°	0.3
179.5°	0.3



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CANDELA DISTRIBUTION (continued):

0°
180° | 0.3

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

Report Prepared for

Cooper Lighting Solutions

Halo Home

Report Number: SP1-2501-315-12

Test Date: 01/14/2025

Luminaire Tested: HLBPH609FS6-6500K

Data in this report applies to families of products including HLBPH609FS6-6500K

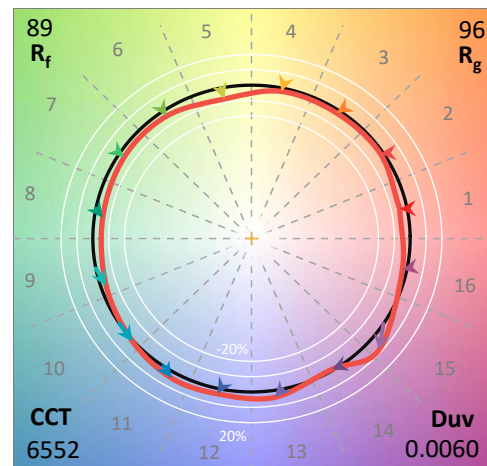
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2501-315-12
 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: **HLBPH609FS6-6500K**
 Description: HLBPH 6 INCH 6 CCT FIXTURE@6500K

Spectral Parameters

CCT (K): 6552
 CIE u' : 0.1953
 CIE v' : 0.4702
 Duv: 0.0060
 CIE x: 0.3112
 CIE y: 0.3330
 CIE z: 0.3558
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 491
 Purity: 7.49039
 R_f: 88.8
 R_g: 96.4

CRI (Ra): 93.3
 R1: 94.1
 R2: 96.0
 R3: 94.9
 R4: 91.6
 R5: 91.5
 R6: 92.0
 R7: 95.4
 R8: 91.1
 R9: 76.2
 R10: 88.2
 R11: 91.8
 R12: 63.2
 R13: 94.7
 R14: 97.0
 R15: 91.5



Test Conditions

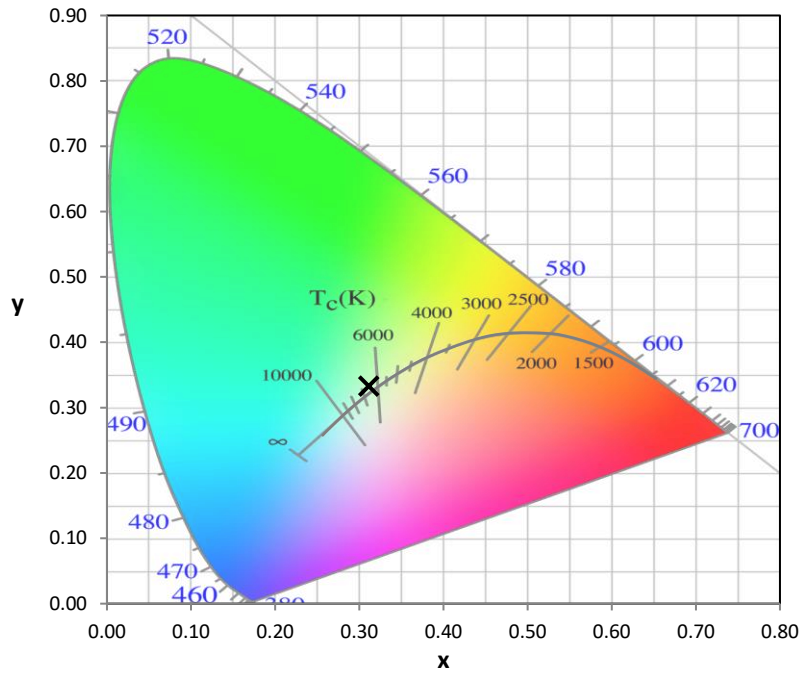
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.4

REPORT NUMBER: SP1-2501-315-12

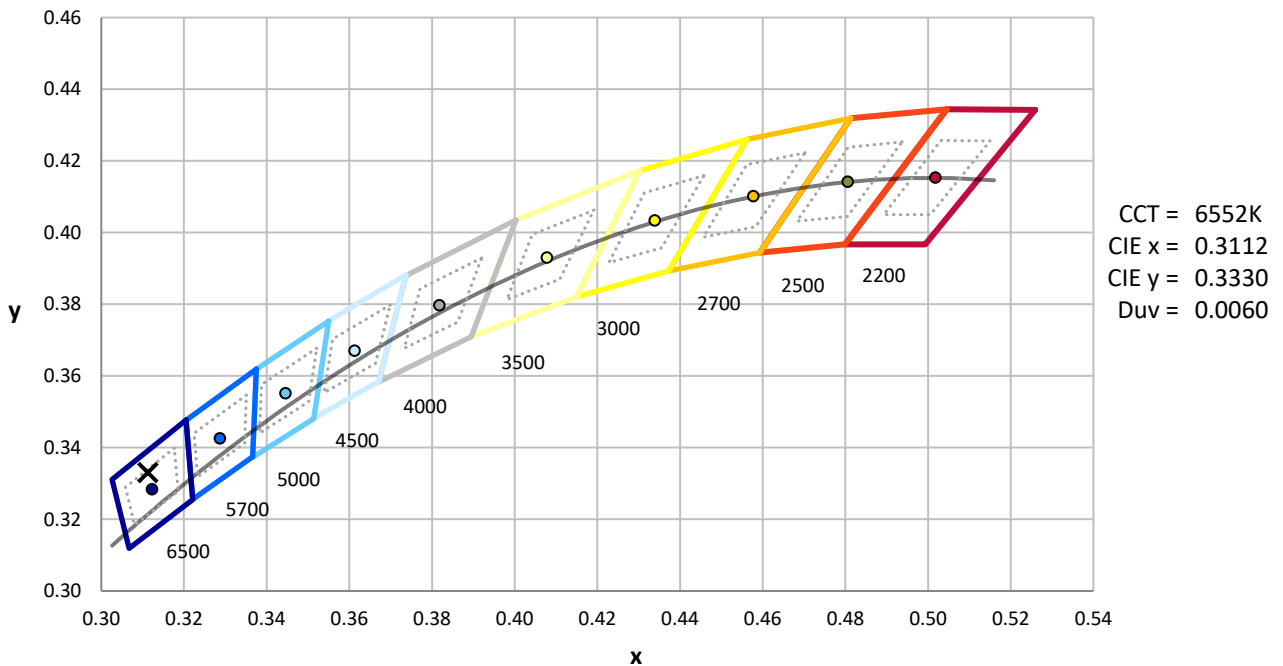
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2501-315-12

CIE 1931 Chromaticity Diagram



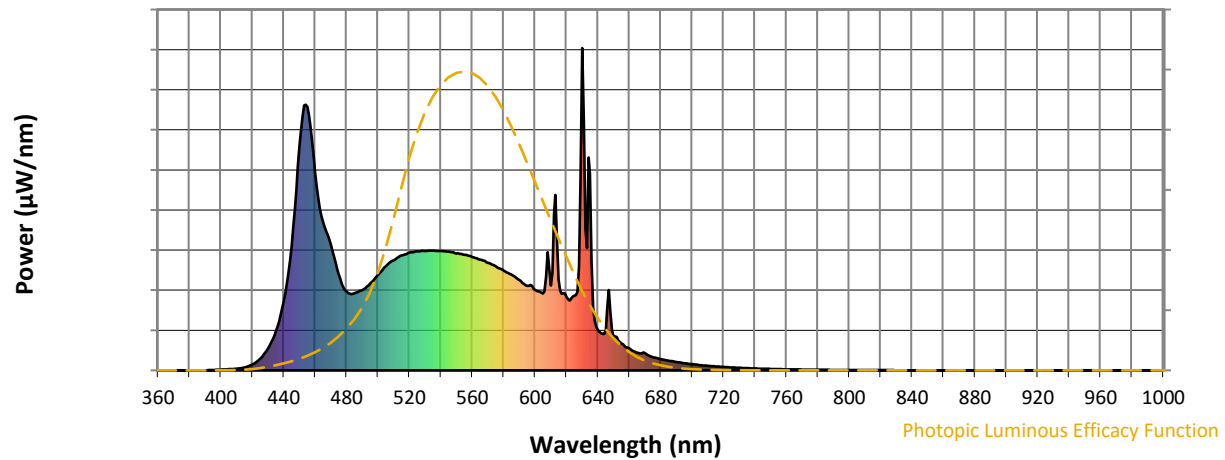
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 6500K 4-step quadrangle

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Photopic Flux vs. Wavelength

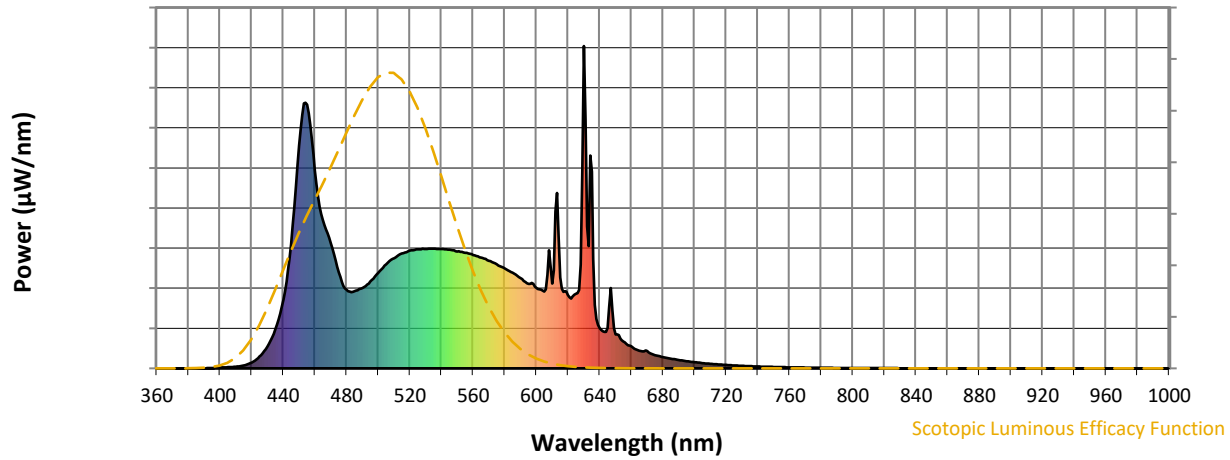


Photopic Lumens: NR

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	249	NR	620	228	NR	750	4	NR	880	0	NR
365	0	NR	495	269	NR	625	231	NR	755	4	NR	885	0	NR
370	0	NR	500	296	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	323	NR	635	610	NR	765	3	NR	895	0	NR
380	0	NR	510	342	NR	640	125	NR	770	2	NR	900	0	NR
385	0	NR	515	357	NR	645	125	NR	775	2	NR	905	0	NR
390	0	NR	520	365	NR	650	106	NR	780	2	NR	910	0	NR
395	1	NR	525	369	NR	655	84	NR	785	2	NR	915	0	NR
400	2	NR	530	371	NR	660	69	NR	790	1	NR	920	0	NR
405	4	NR	535	372	NR	665	55	NR	795	1	NR	925	0	NR
410	5	NR	540	370	NR	670	54	NR	800	1	NR	930	0	NR
415	9	NR	545	368	NR	675	41	NR	805	1	NR	935	0	NR
420	18	NR	550	363	NR	680	35	NR	810	1	NR	940	0	NR
425	37	NR	555	358	NR	685	30	NR	815	1	NR	945	0	NR
430	67	NR	560	352	NR	690	26	NR	820	1	NR	950	0	NR
435	122	NR	565	344	NR	695	22	NR	825	1	NR	955	0	NR
440	213	NR	570	334	NR	700	19	NR	830	1	NR	960	0	NR
445	385	NR	575	323	NR	705	16	NR	835	0	NR	965	0	NR
450	692	NR	580	309	NR	710	14	NR	840	0	NR	970	0	NR
455	818	NR	585	297	NR	715	12	NR	845	0	NR	975	0	NR
460	615	NR	590	280	NR	720	11	NR	850	0	NR	980	0	NR
465	461	NR	595	262	NR	725	9	NR	855	0	NR	985	0	NR
470	388	NR	600	249	NR	730	8	NR	860	0	NR	990	0	NR
475	298	NR	605	239	NR	735	7	NR	865	0	NR	995	0	NR
480	244	NR	610	263	NR	740	6	NR	870	0	NR	1000	0	NR
485	240	NR	615	282	NR	745	5	NR	875	0	NR			

REPORT NUMBER: SP1-2501-315-12

Scotopic Flux vs. Wavelength



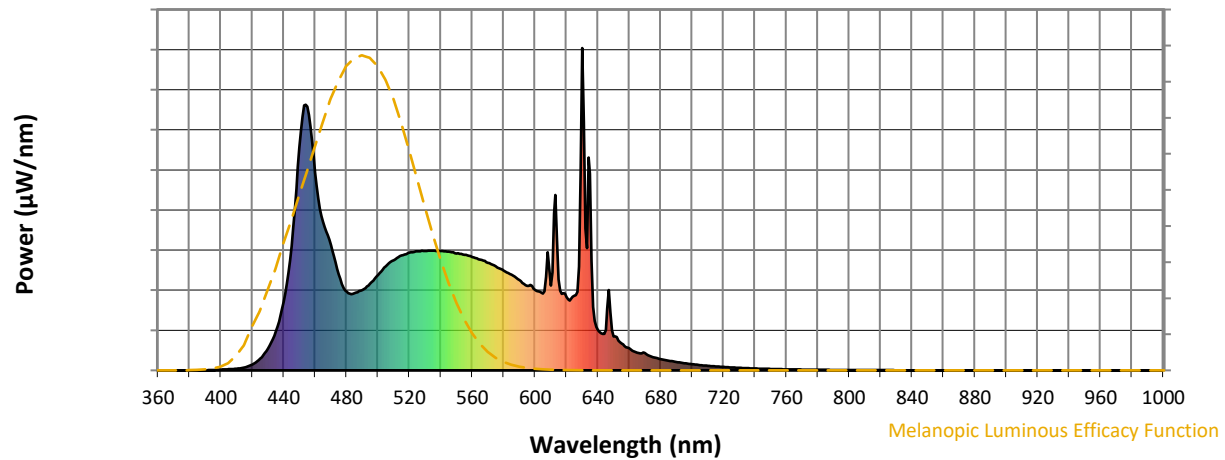
Scotopic Lumens: NR

S/P: 2.4

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	249	NR	620	228	NR	750	4	NR	880	0	NR
365	0	NR	495	269	NR	625	231	NR	755	4	NR	885	0	NR
370	0	NR	500	296	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	323	NR	635	610	NR	765	3	NR	895	0	NR
380	0	NR	510	342	NR	640	125	NR	770	2	NR	900	0	NR
385	0	NR	515	357	NR	645	125	NR	775	2	NR	905	0	NR
390	0	NR	520	365	NR	650	106	NR	780	2	NR	910	0	NR
395	1	NR	525	369	NR	655	84	NR	785	2	NR	915	0	NR
400	2	NR	530	371	NR	660	69	NR	790	1	NR	920	0	NR
405	4	NR	535	372	NR	665	55	NR	795	1	NR	925	0	NR
410	5	NR	540	370	NR	670	54	NR	800	1	NR	930	0	NR
415	9	NR	545	368	NR	675	41	NR	805	1	NR	935	0	NR
420	18	NR	550	363	NR	680	35	NR	810	1	NR	940	0	NR
425	37	NR	555	358	NR	685	30	NR	815	1	NR	945	0	NR
430	67	NR	560	352	NR	690	26	NR	820	1	NR	950	0	NR
435	122	NR	565	344	NR	695	22	NR	825	1	NR	955	0	NR
440	213	NR	570	334	NR	700	19	NR	830	1	NR	960	0	NR
445	385	NR	575	323	NR	705	16	NR	835	0	NR	965	0	NR
450	692	NR	580	309	NR	710	14	NR	840	0	NR	970	0	NR
455	818	NR	585	297	NR	715	12	NR	845	0	NR	975	0	NR
460	615	NR	590	280	NR	720	11	NR	850	0	NR	980	0	NR
465	461	NR	595	262	NR	725	9	NR	855	0	NR	985	0	NR
470	388	NR	600	249	NR	730	8	NR	860	0	NR	990	0	NR
475	298	NR	605	239	NR	735	7	NR	865	0	NR	995	0	NR
480	244	NR	610	263	NR	740	6	NR	870	0	NR	1000	0	NR
485	240	NR	615	282	NR	745	5	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 5.38

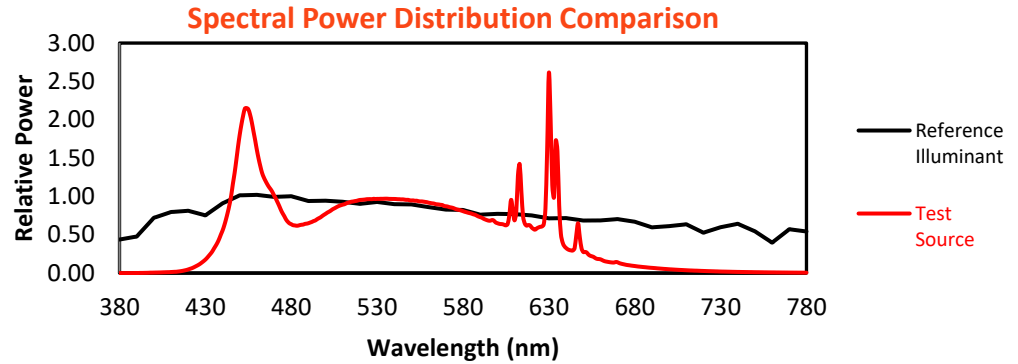
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	249	NR	620	228	NR	750	4	NR	880	0	NR
365	0	NR	495	269	NR	625	231	NR	755	4	NR	885	0	NR
370	0	NR	500	296	NR	630	1000	NR	760	3	NR	890	0	NR
375	0	NR	505	323	NR	635	610	NR	765	3	NR	895	0	NR
380	0	NR	510	342	NR	640	125	NR	770	2	NR	900	0	NR
385	0	NR	515	357	NR	645	125	NR	775	2	NR	905	0	NR
390	0	NR	520	365	NR	650	106	NR	780	2	NR	910	0	NR
395	1	NR	525	369	NR	655	84	NR	785	2	NR	915	0	NR
400	2	NR	530	371	NR	660	69	NR	790	1	NR	920	0	NR
405	4	NR	535	372	NR	665	55	NR	795	1	NR	925	0	NR
410	5	NR	540	370	NR	670	54	NR	800	1	NR	930	0	NR
415	9	NR	545	368	NR	675	41	NR	805	1	NR	935	0	NR
420	18	NR	550	363	NR	680	35	NR	810	1	NR	940	0	NR
425	37	NR	555	358	NR	685	30	NR	815	1	NR	945	0	NR
430	67	NR	560	352	NR	690	26	NR	820	1	NR	950	0	NR
435	122	NR	565	344	NR	695	22	NR	825	1	NR	955	0	NR
440	213	NR	570	334	NR	700	19	NR	830	1	NR	960	0	NR
445	385	NR	575	323	NR	705	16	NR	835	0	NR	965	0	NR
450	692	NR	580	309	NR	710	14	NR	840	0	NR	970	0	NR
455	818	NR	585	297	NR	715	12	NR	845	0	NR	975	0	NR
460	615	NR	590	280	NR	720	11	NR	850	0	NR	980	0	NR
465	461	NR	595	262	NR	725	9	NR	855	0	NR	985	0	NR
470	388	NR	600	249	NR	730	8	NR	860	0	NR	990	0	NR
475	298	NR	605	239	NR	735	7	NR	865	0	NR	995	0	NR
480	244	NR	610	263	NR	740	6	NR	870	0	NR	1000	0	NR
485	240	NR	615	282	NR	745	5	NR	875	0	NR			

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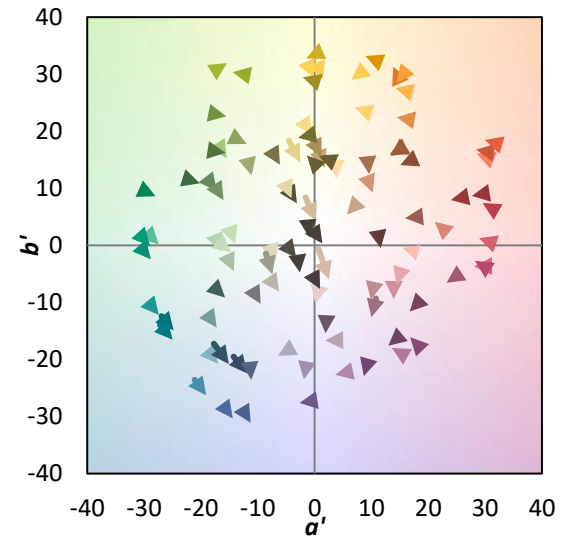
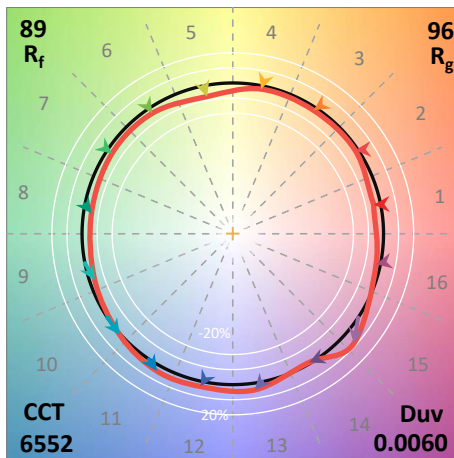
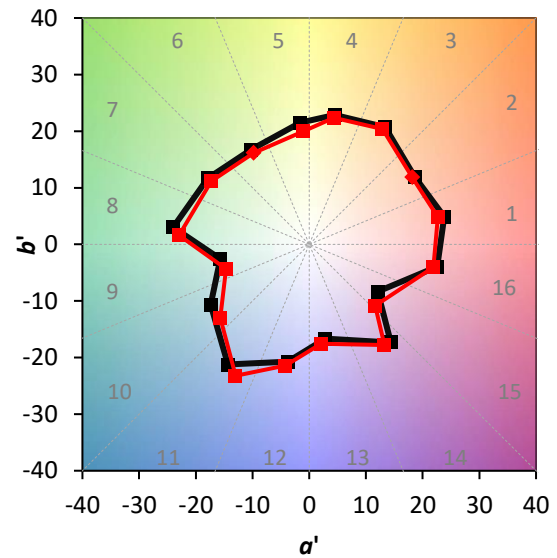
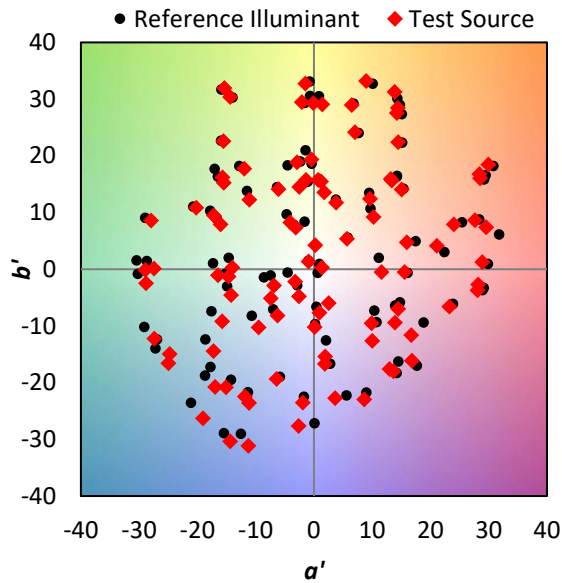
TM-30-18

Summary

$R_f = 88.8$
 $R_g = 96.4$
 $CIE R_a = 93.3$
 $R_9 = 76.2$

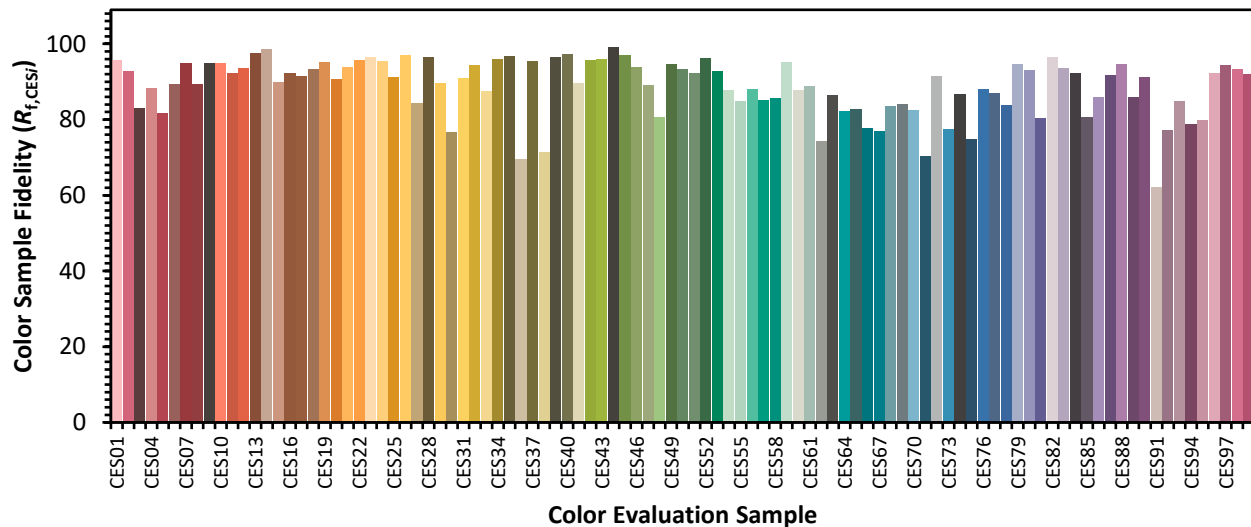


Color Vector Graphics

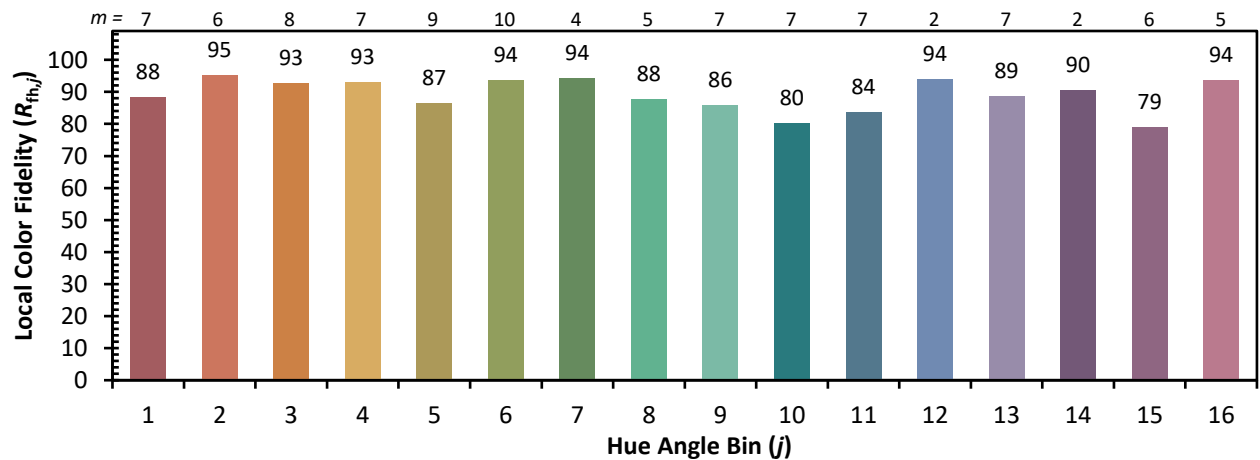
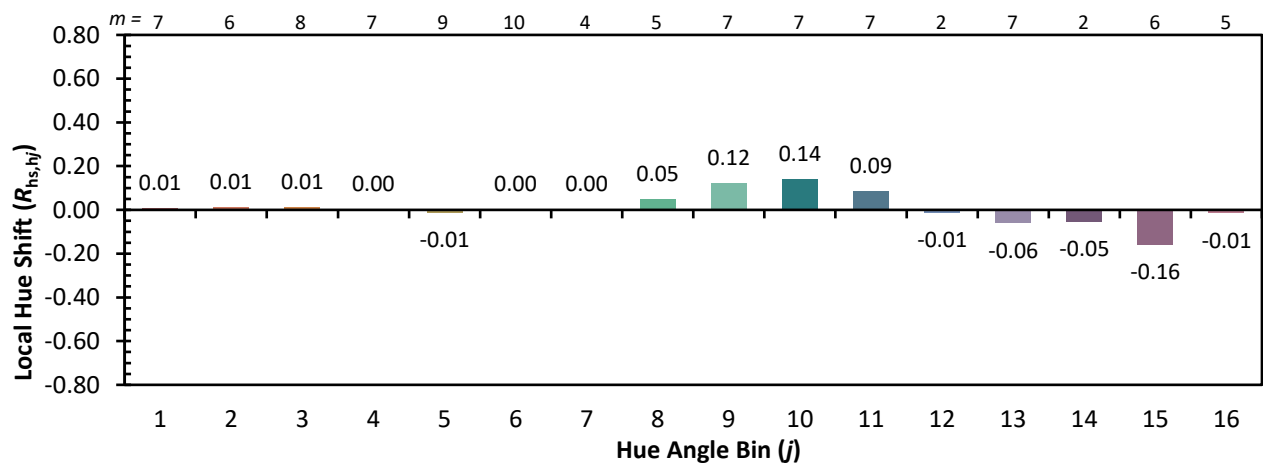
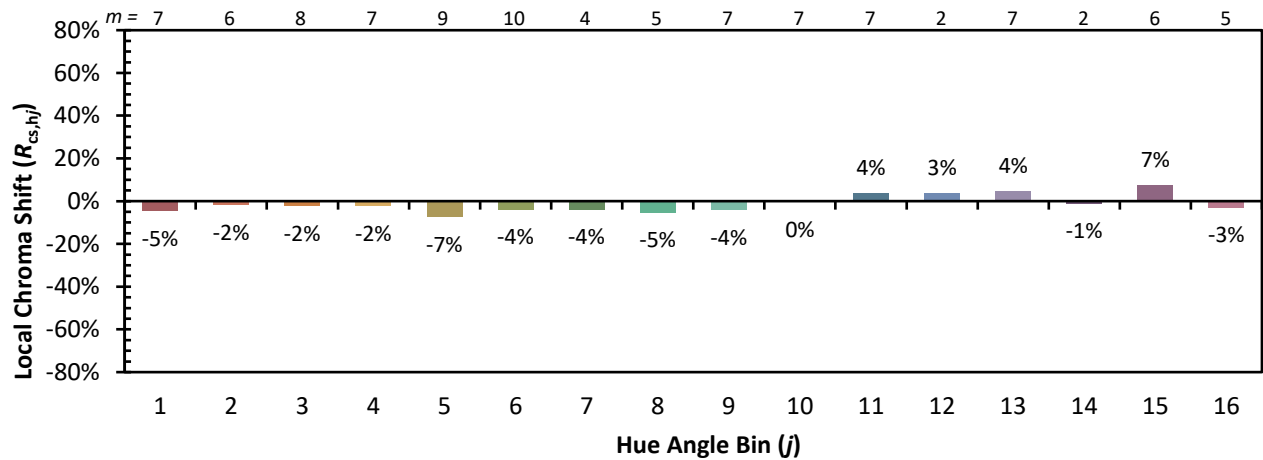


Individual Sample Fidelity Index ($R_{f,i}$)

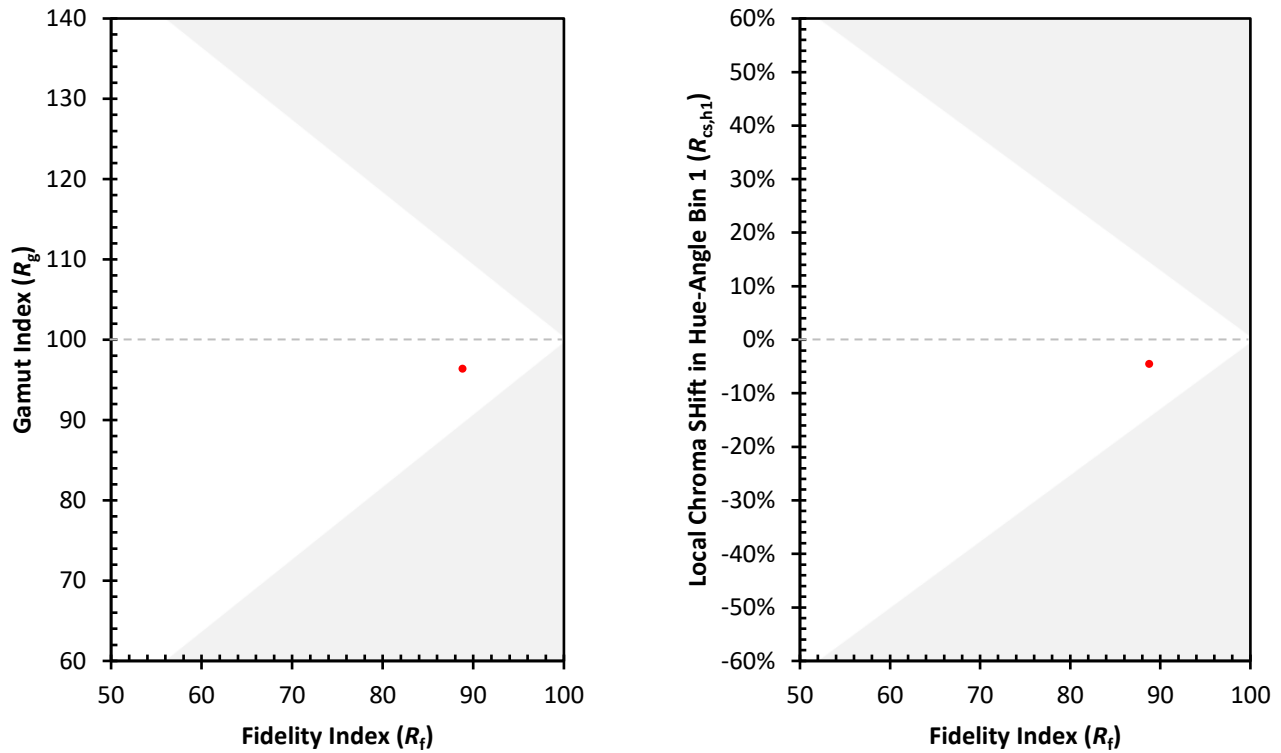
CES01 = 85	CES26 = 97	CES51 = 92	CES76 = 88
CES02 = 59	CES27 = 84	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 96	CES53 = 93	CES78 = 84
CES04 = 68	CES29 = 90	CES54 = 88	CES79 = 95
CES05 = 47	CES30 = 77	CES55 = 85	CES80 = 93
CES06 = 49	CES31 = 91	CES56 = 88	CES81 = 80
CES07 = 40	CES32 = 94	CES57 = 85	CES82 = 97
CES08 = 39	CES33 = 87	CES58 = 86	CES83 = 94
CES09 = 29	CES34 = 96	CES59 = 95	CES84 = 92
CES10 = 72	CES35 = 97	CES60 = 88	CES85 = 81
CES11 = 54	CES36 = 70	CES61 = 89	CES86 = 86
CES12 = 60	CES37 = 96	CES62 = 74	CES87 = 92
CES13 = 42	CES38 = 71	CES63 = 86	CES88 = 95
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 86
CES15 = 70	CES40 = 97	CES65 = 83	CES90 = 91
CES16 = 46	CES41 = 90	CES66 = 78	CES91 = 62
CES17 = 48	CES42 = 96	CES67 = 77	CES92 = 77
CES18 = 55	CES43 = 96	CES68 = 84	CES93 = 85
CES19 = 69	CES44 = 99	CES69 = 84	CES94 = 79
CES20 = 64	CES45 = 97	CES70 = 82	CES95 = 80
CES21 = 84	CES46 = 94	CES71 = 70	CES96 = 92
CES22 = 76	CES47 = 89	CES72 = 91	CES97 = 94
CES23 = 91	CES48 = 81	CES73 = 77	CES98 = 93
CES24 = 89	CES49 = 95	CES74 = 87	CES99 = 92
CES25 = 69	CES50 = 93	CES75 = 75	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)