

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: HALO

Report Number: P798566

Luminaire Tested: **LTSS56079FS1EWHR-950**

Issue Date: 04/03/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P798566  
Test Lab: ETA Testing Technology(A2)  
Issue Date: 04/03/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: LTSS56079FS1EWHR-950  
Description: 6 inch 90 CRI COLOR TUNING RECESSED DOWNLIGHT with DRIVER ON BOARD AND SMOOTH SPRAY TRIM  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

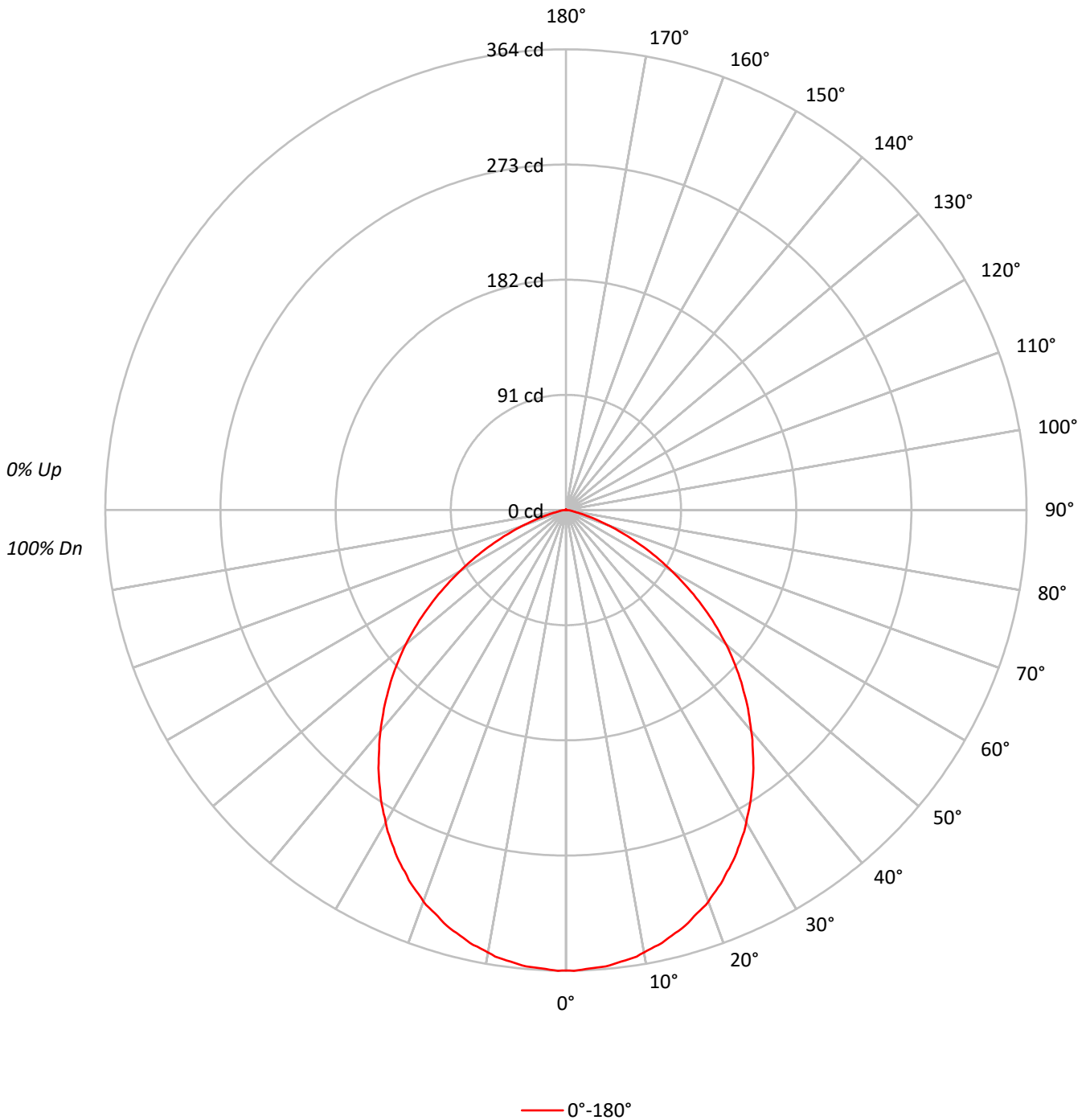
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 789.7 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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			0	
RW	70	50	30	10	70	50	30	10	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	100	100	100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88	88	88	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76	76	76	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	67	65	65	65	65
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57	57	57	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50	50	50	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44	44	44	44
7	69	57	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40	40	40	40
8	64	52	44	38	63	51	44	38	50	43	38	49	42	38	47	42	38	36	36	36	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32	32	32	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30	30	30	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	19944
5°	19921
10°	19761
15°	19535
20°	19205
25°	18691
30°	18041
35°	17239
40°	16309
45°	15296
50°	14098
55°	12530
60°	10624
65°	8444
70°	5882
75°	3283
80°	1799
85°	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	4.3
10°-20°	96.9	12.3
20°-30°	142.1	18.0
30°-40°	160.8	20.4
40°-50°	151.9	19.2
50°-60°	117.0	14.8
60°-70°	64.7	8.2
70°-80°	18.4	2.3
80°-90°	2.7	0.3
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°	0.2	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°	273.4	34.6
0°-40°	434.2	55.0
0°-60°	703.1	89.0
0°-90°	788.9	99.9
90°-120°	0.1	0.0
90°-150°	0.5	0.1
90°-180°	1.0	0.1
0°-180°	789.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	364	
5°	362	34
15°	344	97
25°	309	142
35°	258	161
45°	197	152
55°	131	117
65°	65	65
75°	16	18
85°	2	3
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	363.8
0.5°	363.8
1°	364.2
1.5°	363.8
2°	363.5
2.5°	363.0
3°	362.7
3.5°	362.5
4°	362.4
4.5°	362.2
5°	362.0
5.5°	361.5
6°	360.7
6.5°	360.0
7°	359.4
7.5°	358.9
8°	358.3
8.5°	357.9
9°	357.2
9.5°	356.0
10°	355.0
10.5°	353.9
11°	353.0
11.5°	352.0
12°	351.5
12.5°	350.4
13°	349.0
13.5°	347.7
14°	346.5
14.5°	345.1
15°	344.2
15.5°	342.9
16°	341.7
16.5°	340.2
17°	338.4
17.5°	336.6
18°	335.1
18.5°	333.7
19°	332.3
19.5°	331.1
20°	329.2
20.5°	327.0
21°	325.0
21.5°	323.4
22°	321.5



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**CANDELA DISTRIBUTION (continued):**

	0°
22.5°	319.7
23°	317.7
23.5°	315.2
24°	312.9
24.5°	311.2
25°	309.0
25.5°	306.9
26°	304.8
26.5°	302.4
27°	299.7
27.5°	297.5
28°	295.1
28.5°	292.6
29°	290.5
29.5°	287.9
30°	285.0
30.5°	282.1
31°	279.7
31.5°	276.9
32°	274.5
32.5°	271.9
33°	268.9
33.5°	265.9
34°	263.2
34.5°	260.4
35°	257.6
35.5°	254.9
36°	252.1
36.5°	248.9
37°	245.8
37.5°	242.8
38°	239.7
38.5°	236.9
39°	234.1
39.5°	231.1
40°	227.9
40.5°	224.9
41°	221.7
41.5°	218.8
42°	215.8
42.5°	213.0
43°	209.8
43.5°	206.7
44°	203.4
44.5°	200.3



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**CANDELA DISTRIBUTION (continued):**

	0°
45°	197.3
45.5°	194.3
46°	191.2
46.5°	188.0
47°	184.7
47.5°	181.4
48°	178.1
48.5°	175.0
49°	171.8
49.5°	168.6
50°	165.3
50.5°	161.9
51°	158.4
51.5°	155.0
52°	151.6
52.5°	148.4
53°	145.0
53.5°	141.7
54°	138.2
54.5°	134.6
55°	131.1
55.5°	127.7
56°	124.2
56.5°	120.9
57°	117.4
57.5°	114.1
58°	110.6
58.5°	107.2
59°	103.6
59.5°	100.3
60°	96.9
60.5°	93.6
61°	90.3
61.5°	87.2
62°	83.8
62.5°	80.6
63°	77.3
63.5°	74.2
64°	71.0
64.5°	68.1
65°	65.1
65.5°	62.0
66°	58.8
66.5°	55.9
67°	53.1





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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	50.2
68°	47.4
68.5°	44.7
69°	42.0
69.5°	39.3
70°	36.7
70.5°	34.4
71°	32.1
71.5°	29.7
72°	27.4
72.5°	25.0
73°	22.9
73.5°	20.9
74°	19.0
74.5°	17.2
75°	15.5
75.5°	13.9
76°	12.5
76.5°	11.2
77°	10.0
77.5°	9.0
78°	8.1
78.5°	7.3
79°	6.7
79.5°	6.2
80°	5.7
80.5°	5.4
81°	5.1
81.5°	4.7
82°	4.4
82.5°	4.0
83°	3.7
83.5°	3.3
84°	3.0
84.5°	2.7
85°	2.4
85.5°	2.0
86°	1.7
86.5°	1.4
87°	1.1
87.5°	0.9
88°	0.6
88.5°	0.3
89°	0.1
89.5°	0.0



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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°	0.0
104.5°	0.0
105°	0.0
105.5°	0.0
106°	0.0
106.5°	0.0
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°	0.2
129°	0.2
129.5°	0.2
130°	0.2
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°	0.3
147.5°	0.3
148°	0.3
148.5°	0.3
149°	0.3
149.5°	0.3
150°	0.3
150.5°	0.3
151°	0.3
151.5°	0.3
152°	0.3
152.5°	0.3
153°	0.3
153.5°	0.3
154°	0.3
154.5°	0.3
155°	0.3
155.5°	0.3
156°	0.3
156.5°	0.3
157°	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°
157.5°	0.3
158°	0.3
158.5°	0.3
159°	0.3
159.5°	0.3
160°	0.3
160.5°	0.3
161°	0.3
161.5°	0.3
162°	0.3
162.5°	0.3
163°	0.3
163.5°	0.3
164°	0.3
164.5°	0.3
165°	0.4
165.5°	0.4
166°	0.4
166.5°	0.4
167°	0.4
167.5°	0.4
168°	0.5
168.5°	0.5
169°	0.4
169.5°	0.4
170°	0.4
170.5°	0.4
171°	0.4
171.5°	0.4
172°	0.4
172.5°	0.4
173°	0.4
173.5°	0.4
174°	0.4
174.5°	0.4
175°	0.4
175.5°	0.3
176°	0.3
176.5°	0.3
177°	0.3
177.5°	0.2
178°	0.2
178.5°	0.3
179°	0.3
179.5°	0.3

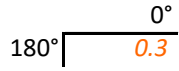
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Peachtree City, GA 30269

Scaled Data Report



TEST NUMBER: P798566  
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CANDELA DISTRIBUTION (continued):



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

Report Prepared for

Cooper Lighting Solutions

HALO

Report Number: SP1-2401-294-5

Test Date: 03/08/2024

Luminaire Tested: LT4069FS1EWHR-5000K

Data in this report applies to families of products LT4069FS1EWHR-5000K.

This test was performed under the Supervised Manufacturer's Testing Program.  
The results of this test have not been influenced by sources from within Eaton or from external interests.

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2401-294-5  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 03/08/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: HALO  
 Catalog Number: **LT4069FS1EWHR-5000K**  
 Description: 4 INCH HALO LT 5CCT DOB .

**Spectral Parameters**

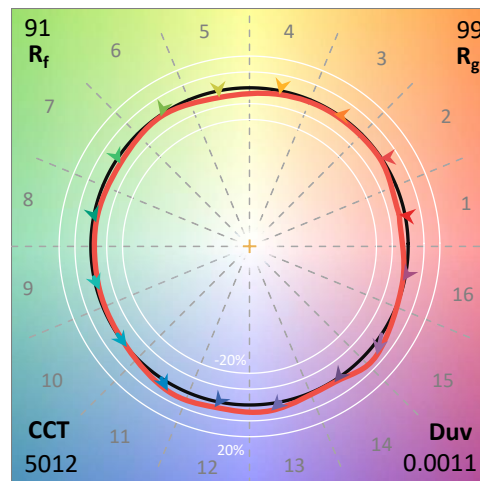
CCT (K): 5012  
 CIE u': 0.2105  
 CIE v': 0.4857  
 Duv: 0.0011  
 CIE x: 0.3449  
 CIE y: 0.3537  
 CIE z: 0.3014  
 Peak Wavelength (nm): 632  
 Dominant Wavelength (nm): 571  
 Purity: 9.7

CRI (Ra):	95.9		
R1:	97.6	R9:	85.0
R2:	98.4	R10:	93.4
R3:	95.7	R11:	96.1
R4:	95.9	R12:	72.5
R5:	95.4	R13:	98.6
R6:	94.3	R14:	96.9
R7:	95.8		
R8:	93.8		

Rf: 90.8  
 Rg: 99

**Test Conditions**

Stabilization Time: 10M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.8/43%  
 Sphere Temperature (°C): 25.0





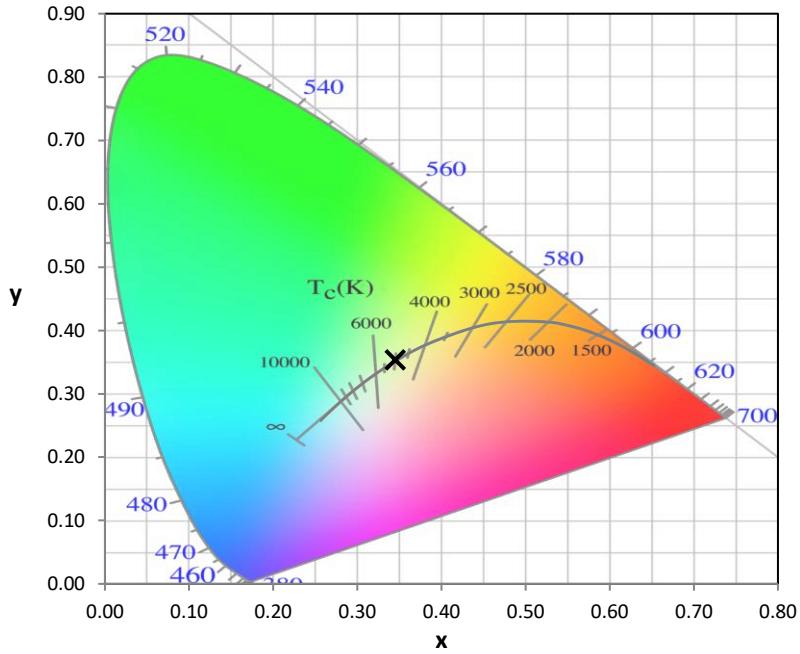
REPORT NUMBER: SP1-2401-294-5

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	2/12/2024	8/12/2024
Power Meter	XITRON 2801 IN0071	10/23/2023	10/23/2024
AC Power Source	CHROMA 61603 IN0063	10/24/2023	10/24/2024
DC Power Source	AGILENT E3634A IN0208	10/24/2023	10/24/2024
Sphere Thermometer	ONSET IN0085	10/24/2023	10/24/2024
Room Thermometer	ONSET IN0046	10/24/2023	10/24/2024

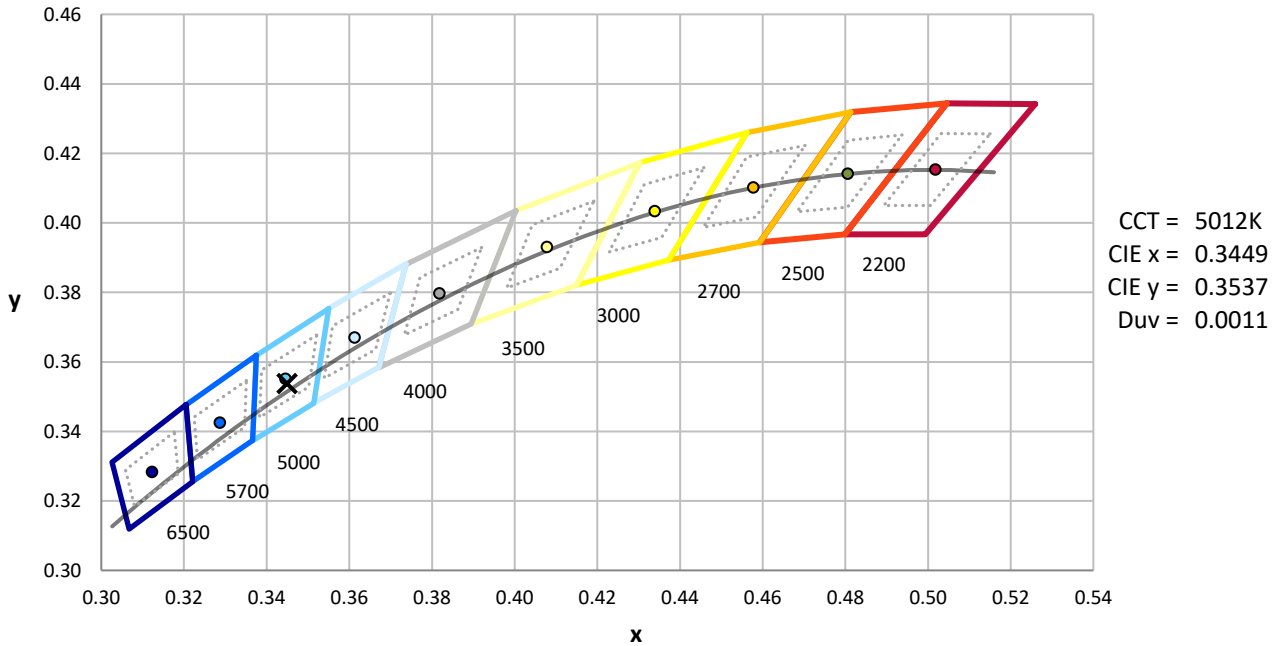
Sample Number	Condition	Description
2401-294-LM1	Good	LT4069FS1EWHR

REPORT NUMBER: SP1-2401-294-5

CIE 1931 Chromaticity Diagram



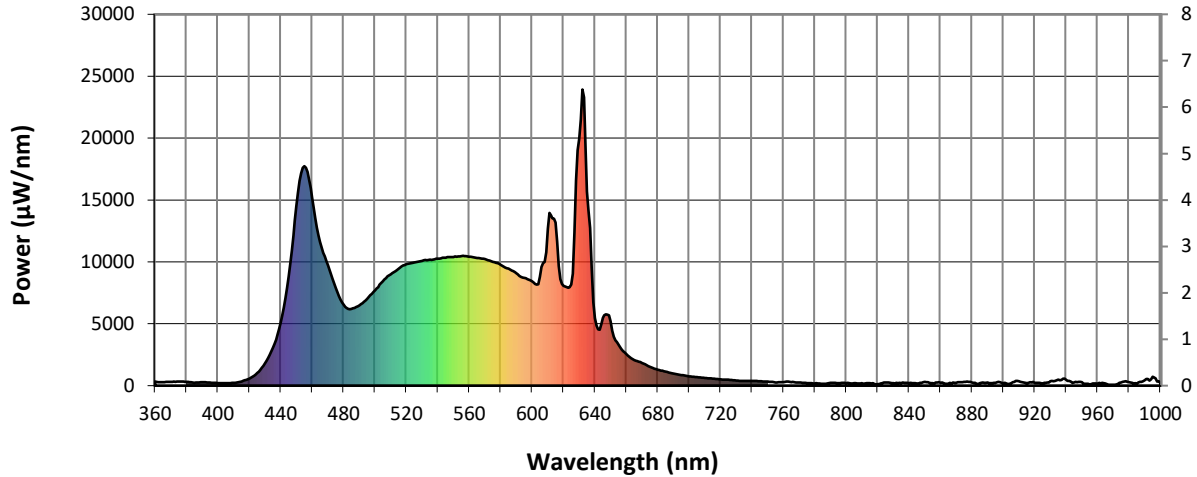
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

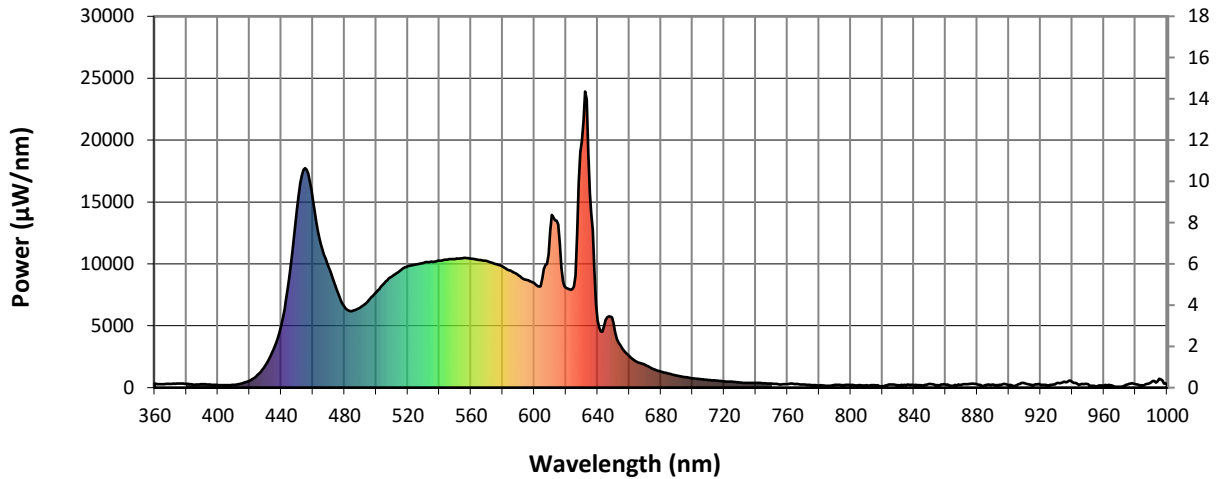


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$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )
360	335	NR	490	6487	NR	620	8064	NR	750	327	NR	880	241	NR
365	285	NR	495	7003	NR	625	8158	NR	755	262	NR	885	198	NR
370	299	NR	500	7706	NR	630	19946	NR	760	277	NR	890	252	NR
375	343	NR	505	8427	NR	635	15687	NR	765	292	NR	895	240	NR
380	308	NR	510	8980	NR	640	5453	NR	770	251	NR	900	194	NR
385	237	NR	515	9431	NR	645	5486	NR	775	209	NR	905	194	NR
390	271	NR	520	9824	NR	650	5188	NR	780	188	NR	910	359	NR
395	244	NR	525	9952	NR	655	3299	NR	785	152	NR	915	211	NR
400	208	NR	530	10088	NR	660	2545	NR	790	231	NR	920	230	NR
405	193	NR	535	10182	NR	665	2076	NR	795	215	NR	925	154	NR
410	226	NR	540	10265	NR	670	1842	NR	800	210	NR	930	356	NR
415	337	NR	545	10346	NR	675	1520	NR	805	198	NR	935	475	NR
420	575	NR	550	10395	NR	680	1298	NR	810	202	NR	940	464	NR
425	1017	NR	555	10474	NR	685	1131	NR	815	190	NR	945	257	NR
430	1800	NR	560	10421	NR	690	977	NR	820	114	NR	950	276	NR
435	3066	NR	565	10322	NR	695	858	NR	825	263	NR	955	108	NR
440	5080	NR	570	10219	NR	700	755	NR	830	196	NR	960	152	NR
445	8819	NR	575	9989	NR	705	684	NR	835	209	NR	965	164	NR
450	14533	NR	580	9772	NR	710	618	NR	840	210	NR	970	63	NR
455	17725	NR	585	9463	NR	715	571	NR	845	186	NR	975	255	NR
460	15230	NR	590	9077	NR	720	507	NR	850	315	NR	980	282	NR
465	11596	NR	595	8717	NR	725	474	NR	855	202	NR	985	158	NR
470	9723	NR	600	8410	NR	730	412	NR	860	231	NR	990	442	NR
475	7896	NR	605	8785	NR	735	378	NR	865	151	NR	995	720	NR
480	6535	NR	610	12686	NR	740	378	NR	870	237	NR	1000	229	NR
485	6208	NR	615	13192	NR	745	359	NR	875	298	NR			

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Scotopic Flux vs. Wavelength



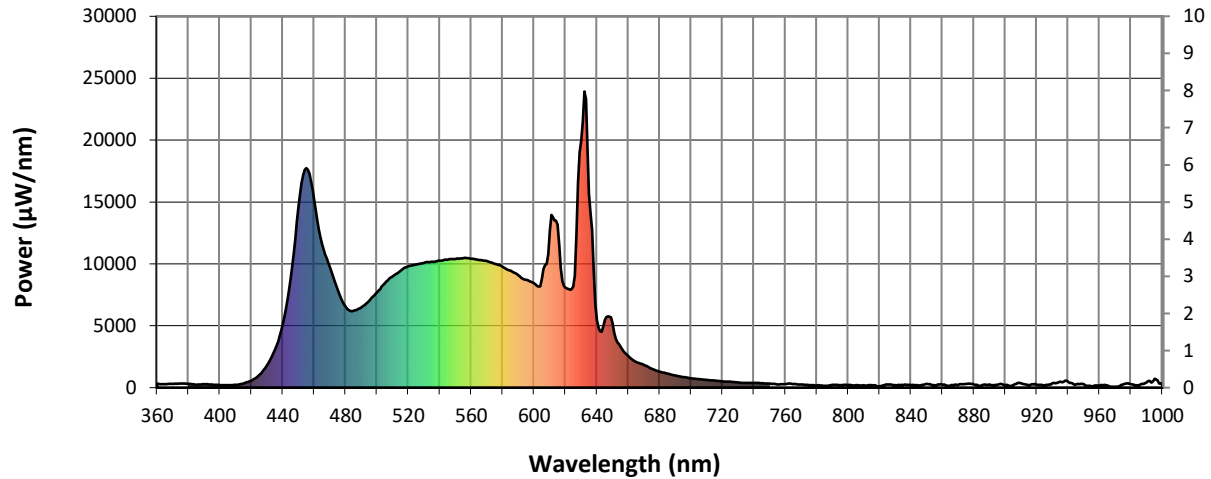
Scotopic Lumens: 1504.2

S/P: 2.11

λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	335	NR	490	6487	NR	620	8064	NR	750	327	NR	880	241	NR
365	285	NR	495	7003	NR	625	8158	NR	755	262	NR	885	198	NR
370	299	NR	500	7706	NR	630	19946	NR	760	277	NR	890	252	NR
375	343	NR	505	8427	NR	635	15687	NR	765	292	NR	895	240	NR
380	308	NR	510	8980	NR	640	5453	NR	770	251	NR	900	194	NR
385	237	NR	515	9431	NR	645	5486	NR	775	209	NR	905	194	NR
390	271	NR	520	9824	NR	650	5188	NR	780	188	NR	910	359	NR
395	244	NR	525	9952	NR	655	3299	NR	785	152	NR	915	211	NR
400	208	NR	530	10088	NR	660	2545	NR	790	231	NR	920	230	NR
405	193	NR	535	10182	NR	665	2076	NR	795	215	NR	925	154	NR
410	226	NR	540	10265	NR	670	1842	NR	800	210	NR	930	356	NR
415	337	NR	545	10346	NR	675	1520	NR	805	198	NR	935	475	NR
420	575	NR	550	10395	NR	680	1298	NR	810	202	NR	940	464	NR
425	1017	NR	555	10474	NR	685	1131	NR	815	190	NR	945	257	NR
430	1800	NR	560	10421	NR	690	977	NR	820	114	NR	950	276	NR
435	3066	NR	565	10322	NR	695	858	NR	825	263	NR	955	108	NR
440	5080	NR	570	10219	NR	700	755	NR	830	196	NR	960	152	NR
445	8819	NR	575	9989	NR	705	684	NR	835	209	NR	965	164	NR
450	14533	NR	580	9772	NR	710	618	NR	840	210	NR	970	63	NR
455	17725	NR	585	9463	NR	715	571	NR	845	186	NR	975	255	NR
460	15230	NR	590	9077	NR	720	507	NR	850	315	NR	980	282	NR
465	11596	NR	595	8717	NR	725	474	NR	855	202	NR	985	158	NR
470	9723	NR	600	8410	NR	730	412	NR	860	231	NR	990	442	NR
475	7896	NR	605	8785	NR	735	378	NR	865	151	NR	995	720	NR
480	6535	NR	610	12686	NR	740	378	NR	870	237	NR	1000	229	NR
485	6208	NR	615	13192	NR	745	359	NR	875	298	NR			

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 648.3 M/P: 0.91**

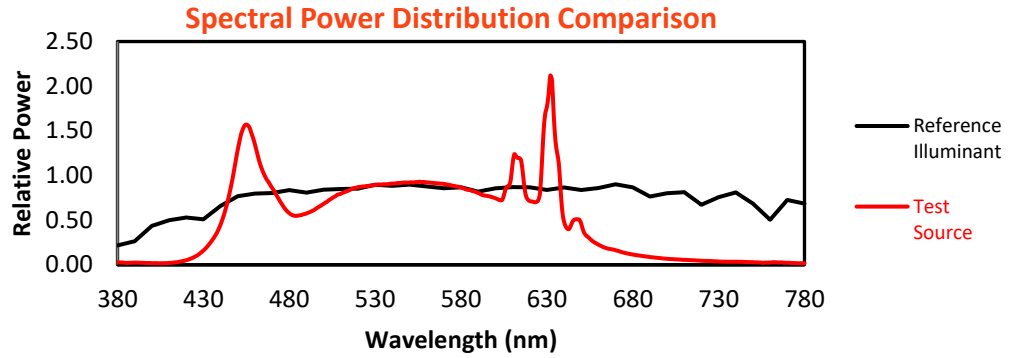
$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )	$\lambda$ (nm)	Power ( $\mu\text{W}/\text{nm}$ )	Lumens ( $\phi/\text{nm}$ )
360	335	NR	490	6487	NR	620	8064	NR	750	327	NR	880	241	NR
365	285	NR	495	7003	NR	625	8158	NR	755	262	NR	885	198	NR
370	299	NR	500	7706	NR	630	19946	NR	760	277	NR	890	252	NR
375	343	NR	505	8427	NR	635	15687	NR	765	292	NR	895	240	NR
380	308	NR	510	8980	NR	640	5453	NR	770	251	NR	900	194	NR
385	237	NR	515	9431	NR	645	5486	NR	775	209	NR	905	194	NR
390	271	NR	520	9824	NR	650	5188	NR	780	188	NR	910	359	NR
395	244	NR	525	9952	NR	655	3299	NR	785	152	NR	915	211	NR
400	208	NR	530	10088	NR	660	2545	NR	790	231	NR	920	230	NR
405	193	NR	535	10182	NR	665	2076	NR	795	215	NR	925	154	NR
410	226	NR	540	10265	NR	670	1842	NR	800	210	NR	930	356	NR
415	337	NR	545	10346	NR	675	1520	NR	805	198	NR	935	475	NR
420	575	NR	550	10395	NR	680	1298	NR	810	202	NR	940	464	NR
425	1017	NR	555	10474	NR	685	1131	NR	815	190	NR	945	257	NR
430	1800	NR	560	10421	NR	690	977	NR	820	114	NR	950	276	NR
435	3066	NR	565	10322	NR	695	858	NR	825	263	NR	955	108	NR
440	5080	NR	570	10219	NR	700	755	NR	830	196	NR	960	152	NR
445	8819	NR	575	9989	NR	705	684	NR	835	209	NR	965	164	NR
450	14533	NR	580	9772	NR	710	618	NR	840	210	NR	970	63	NR
455	17725	NR	585	9463	NR	715	571	NR	845	186	NR	975	255	NR
460	15230	NR	590	9077	NR	720	507	NR	850	315	NR	980	282	NR
465	11596	NR	595	8717	NR	725	474	NR	855	202	NR	985	158	NR
470	9723	NR	600	8410	NR	730	412	NR	860	231	NR	990	442	NR
475	7896	NR	605	8785	NR	735	378	NR	865	151	NR	995	720	NR
480	6535	NR	610	12686	NR	740	378	NR	870	237	NR	1000	229	NR
485	6208	NR	615	13192	NR	745	359	NR	875	298	NR			

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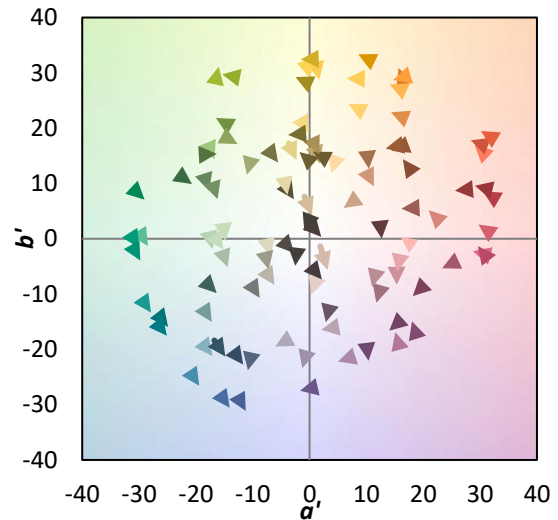
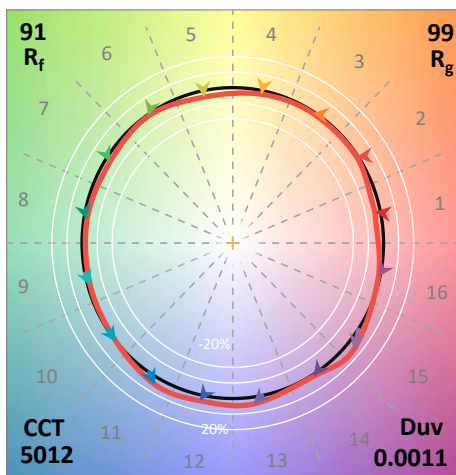
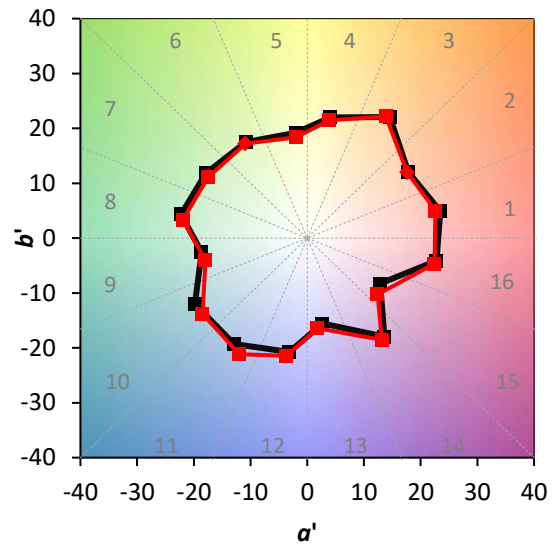
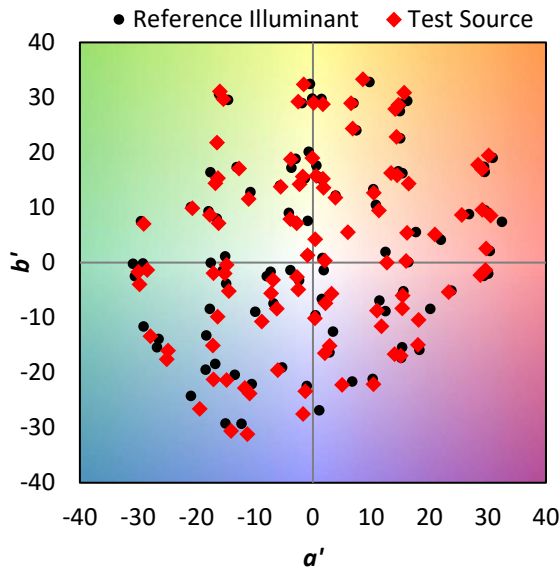
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**Summary**

$R_f = 90.8$   
 $R_g = 99$   
 $CIE R_a = 95.9$   
 $R_9 = 85.0$



**Color Vector Graphics**

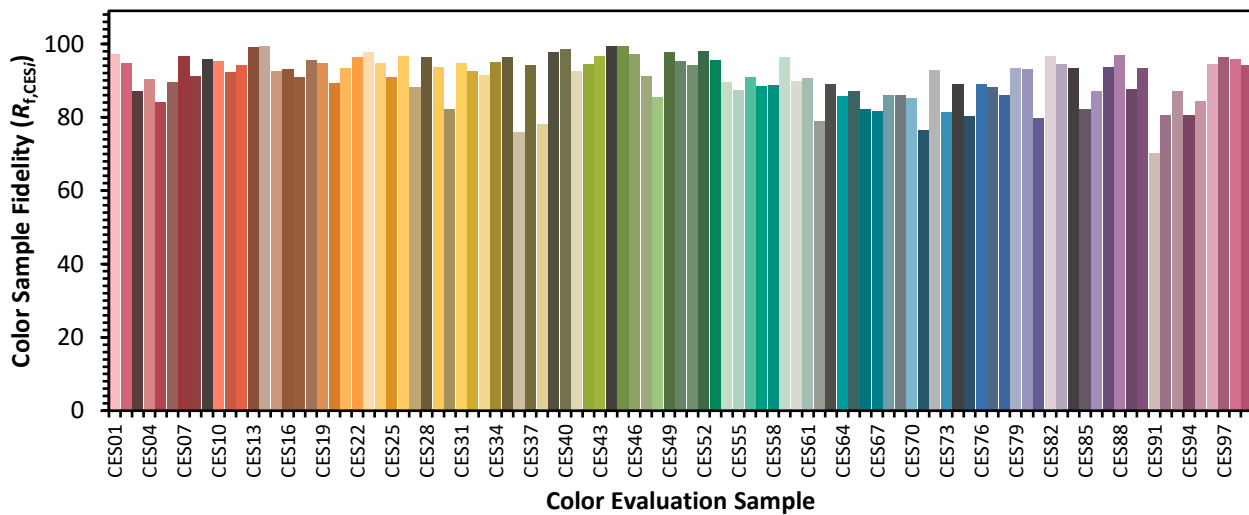


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

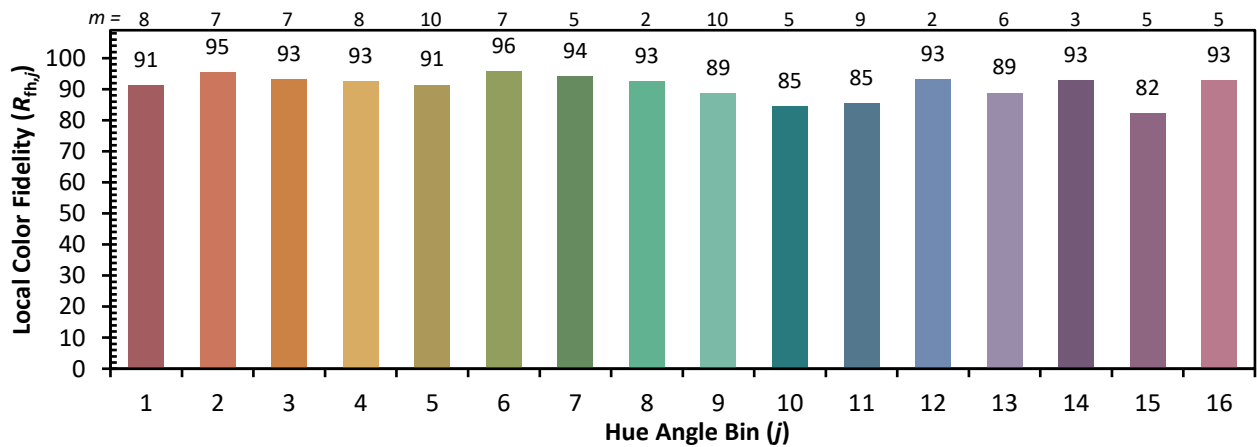
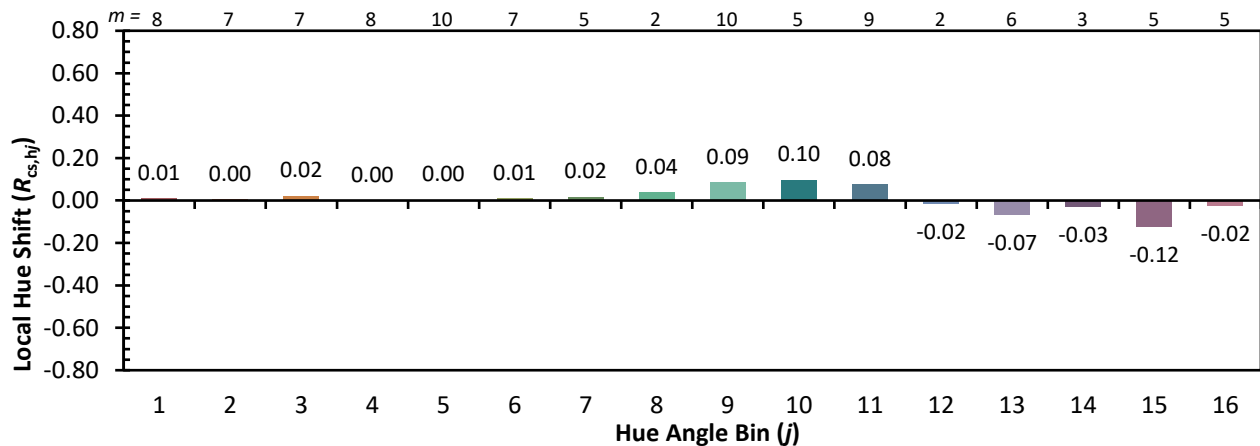
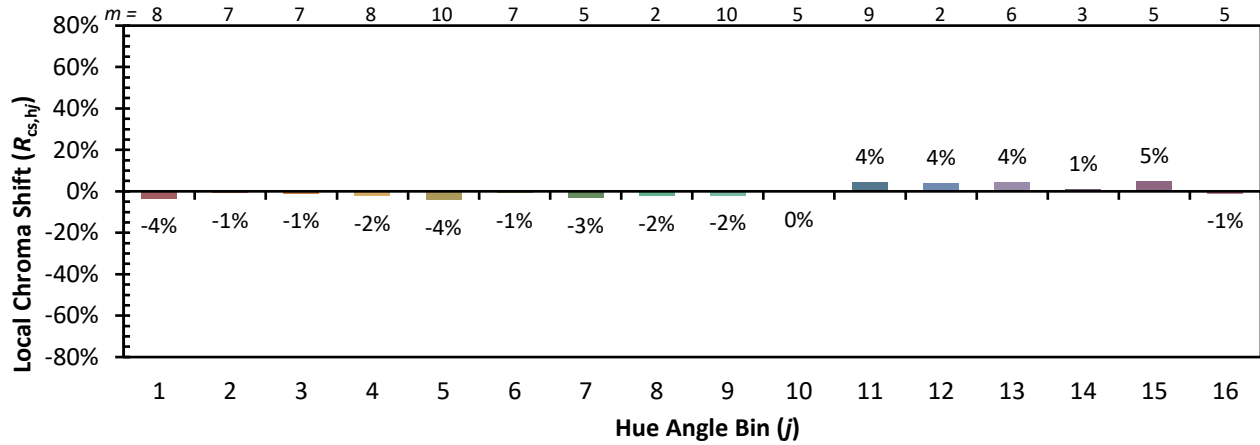
CES01 = 85	CES26 = 97	CES51 = 94	CES76 = 89
CES02 = 61	CES27 = 88	CES52 = 98	CES77 = 88
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 86
CES04 = 68	CES29 = 94	CES54 = 90	CES79 = 93
CES05 = 48	CES30 = 82	CES55 = 87	CES80 = 93
CES06 = 50	CES31 = 95	CES56 = 91	CES81 = 80
CES07 = 41	CES32 = 93	CES57 = 88	CES82 = 97
CES08 = 40	CES33 = 92	CES58 = 89	CES83 = 94
CES09 = 29	CES34 = 95	CES59 = 96	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 90	CES85 = 82
CES11 = 56	CES36 = 76	CES61 = 91	CES86 = 87
CES12 = 62	CES37 = 94	CES62 = 79	CES87 = 94
CES13 = 42	CES38 = 78	CES63 = 89	CES88 = 97
CES14 = 74	CES39 = 98	CES64 = 86	CES89 = 88
CES15 = 71	CES40 = 98	CES65 = 87	CES90 = 93
CES16 = 47	CES41 = 93	CES66 = 82	CES91 = 70
CES17 = 48	CES42 = 94	CES67 = 82	CES92 = 81
CES18 = 56	CES43 = 97	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 99	CES69 = 86	CES94 = 81
CES20 = 65	CES45 = 99	CES70 = 85	CES95 = 84
CES21 = 84	CES46 = 97	CES71 = 77	CES96 = 94
CES22 = 77	CES47 = 91	CES72 = 93	CES97 = 96
CES23 = 91	CES48 = 85	CES73 = 81	CES98 = 96
CES24 = 89	CES49 = 98	CES74 = 89	CES99 = 94
CES25 = 70	CES50 = 95	CES75 = 80	



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Color Rendition by Hue-Angle Bin

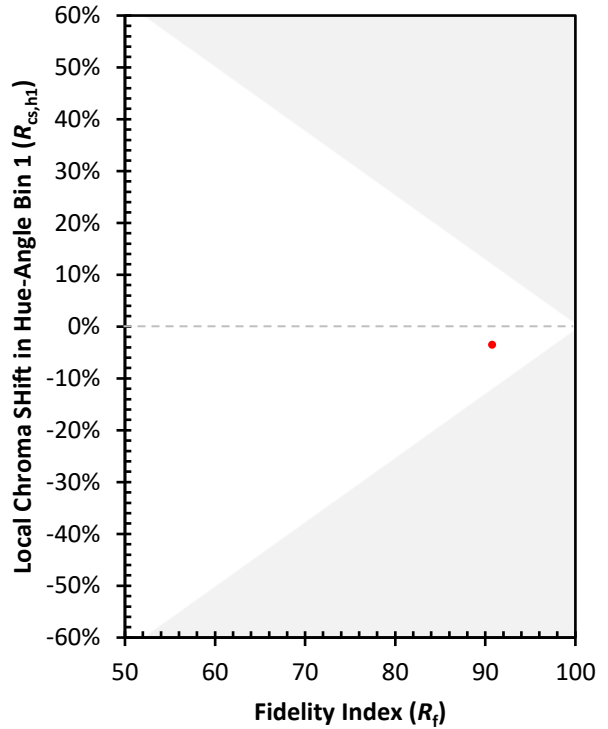
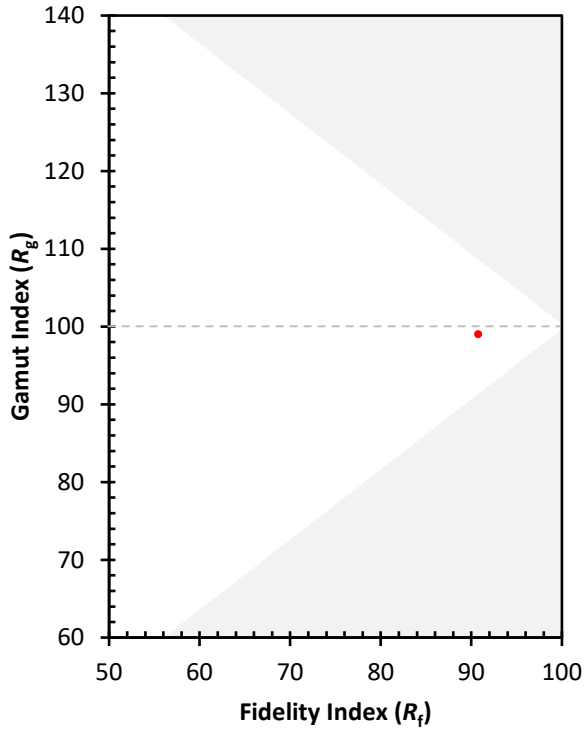




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Measure Comparisons



(END OF REPORT)