

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: P798569

Luminaire Tested: **LT56079FS1EWHR-935**

Issue Date: 04/03/2024



Test Information

Test Method: LM-79-08
Report Number: P798569
Test Lab: ETA Testing Technology(A2)
Issue Date: 04/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LT56079FS1EWHR-935
Description: 6 inch 90 CRI COLOR TUNING RECESSED DOWNLIGHT with DRIVER ON BOARD
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

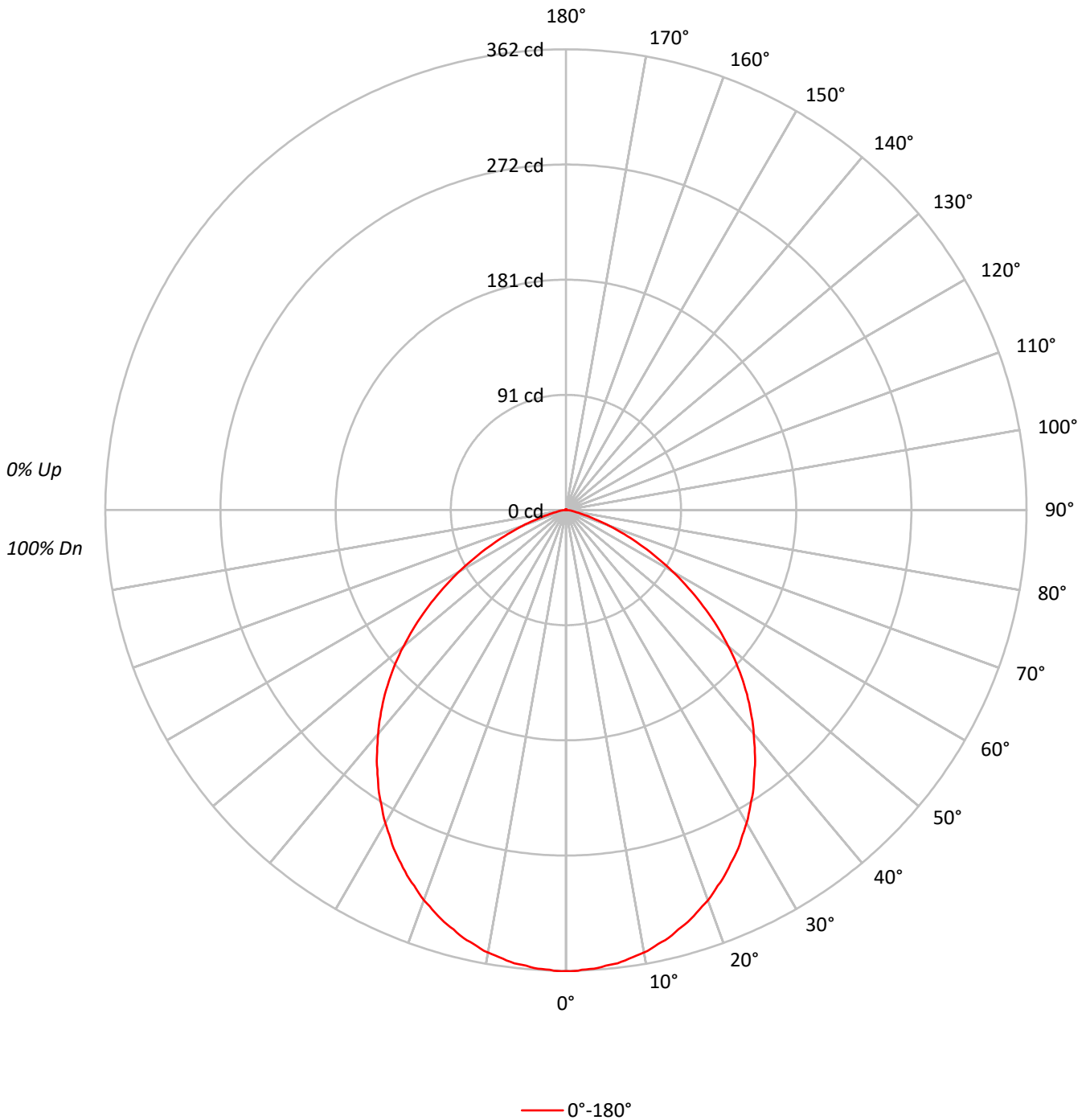
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 790.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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			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			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76			
3	94	85	77	72	92	83	76	71	80	74	70	77	73	69	75	71	67	65			
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44			
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	41	40			
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32			
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19861
5°	19772
10°	19656
15°	19364
20°	19036
25°	18533
30°	17977
35°	17239
40°	16438
45°	15482
50°	14208
55°	12587
60°	10635
65°	8341
70°	5834
75°	3219
80°	2020
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	4.3
10°-20°	96.2	12.2
20°-30°	141.1	17.9
30°-40°	161.1	20.4
40°-50°	153.6	19.4
50°-60°	117.6	14.9
60°-70°	64.2	8.1
70°-80°	18.2	2.3
80°-90°	3.0	0.4
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°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	271.4	34.4
0°-40°	432.5	54.7
0°-60°	703.7	89.1
0°-90°	789.1	99.9
90°-120°	0.2	0.0
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	790.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	362	
5°	359	34
15°	341	96
25°	306	141
35°	258	161
45°	200	154
55°	132	118
65°	64	64
75°	15	18
85°	3	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°	362.3
0.5°	362.5
1°	362.3
1.5°	362.2
2°	361.4
2.5°	361.3
3°	361.1
3.5°	361.2
4°	360.7
4.5°	360.2
5°	359.3
5.5°	359.1
6°	358.7
6.5°	358.4
7°	357.7
7.5°	357.0
8°	356.1
8.5°	355.2
9°	354.4
9.5°	353.7
10°	353.1
10.5°	352.3
11°	351.2
11.5°	349.9
12°	348.7
12.5°	347.7
13°	346.9
13.5°	345.8
14°	344.3
14.5°	342.8
15°	341.2
15.5°	340.0
16°	338.8
16.5°	337.5
17°	336.0
17.5°	334.4
18°	332.7
18.5°	331.0
19°	329.3
19.5°	327.8
20°	326.3
20.5°	324.6
21°	322.5
21.5°	320.5
22°	318.4



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CANDELA DISTRIBUTION (continued):

	0°
22.5°	316.9
23°	315.0
23.5°	313.1
24°	310.8
24.5°	308.8
25°	306.4
25.5°	304.5
26°	302.5
26.5°	300.4
27°	298.3
27.5°	296.0
28°	293.3
28.5°	290.8
29°	288.6
29.5°	286.2
30°	284.0
30.5°	281.7
31°	278.9
31.5°	276.2
32°	273.7
32.5°	271.1
33°	268.7
33.5°	266.3
34°	263.5
34.5°	260.7
35°	257.6
35.5°	255.0
36°	252.2
36.5°	249.7
37°	247.1
37.5°	244.1
38°	241.1
38.5°	238.4
39°	235.2
39.5°	232.5
40°	229.7
40.5°	227.0
41°	224.1
41.5°	221.2
42°	217.9
42.5°	215.0
43°	211.9
43.5°	209.1
44°	205.9
44.5°	203.0



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CANDELA DISTRIBUTION (continued):

	0°
45°	199.7
45.5°	196.5
46°	193.3
46.5°	190.1
47°	186.8
47.5°	183.6
48°	180.5
48.5°	177.1
49°	173.6
49.5°	170.3
50°	166.6
50.5°	163.2
51°	159.8
51.5°	156.3
52°	152.9
52.5°	149.6
53°	146.0
53.5°	142.4
54°	138.7
54.5°	135.3
55°	131.7
55.5°	128.4
56°	124.9
56.5°	121.3
57°	117.6
57.5°	114.2
58°	110.6
58.5°	107.2
59°	103.7
59.5°	100.4
60°	97.0
60.5°	93.6
61°	90.1
61.5°	86.7
62°	83.4
62.5°	80.3
63°	77.0
63.5°	73.9
64°	70.6
64.5°	67.4
65°	64.3
65.5°	61.3
66°	58.2
66.5°	55.3
67°	52.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	49.6
68°	46.7
68.5°	43.9
69°	41.2
69.5°	38.6
70°	36.4
70.5°	34.0
71°	31.5
71.5°	29.1
72°	26.6
72.5°	24.4
73°	22.4
73.5°	20.4
74°	18.5
74.5°	16.8
75°	15.2
75.5°	13.7
76°	12.4
76.5°	11.2
77°	10.1
77.5°	9.2
78°	8.4
78.5°	7.7
79°	7.2
79.5°	6.7
80°	6.4
80.5°	6.0
81°	5.7
81.5°	5.4
82°	5.0
82.5°	4.6
83°	4.2
83.5°	3.8
84°	3.4
84.5°	3.0
85°	2.7
85.5°	2.3
86°	2.0
86.5°	1.5
87°	1.2
87.5°	0.8
88°	0.4
88.5°	0.1
89°	0.0
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°	0.1
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°	0.2
127°	0.2
127.5°	0.2
128°	0.2
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°	0.3
143°	0.3
143.5°	0.3
144°	0.3
144.5°	0.3
145°	0.3
145.5°	0.3
146°	0.3
146.5°	0.3
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°	0.4
153°	0.4
153.5°	0.4
154°	0.4
154.5°	0.4
155°	0.4
155.5°	0.4
156°	0.4
156.5°	0.4
157°	0.4



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CANDELA DISTRIBUTION (continued):

	0°
157.5°	0.4
158°	0.4
158.5°	0.4
159°	0.4
159.5°	0.4
160°	0.4
160.5°	0.4
161°	0.4
161.5°	0.4
162°	0.4
162.5°	0.4
163°	0.4
163.5°	0.3
164°	0.4
164.5°	0.4
165°	0.5
165.5°	0.5
166°	0.5
166.5°	0.5
167°	0.5
167.5°	0.6
168°	0.6
168.5°	0.5
169°	0.5
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°	0.3
175°	0.3
175.5°	0.3
176°	0.3
176.5°	0.3
177°	0.3
177.5°	0.2
178°	0.2
178.5°	0.2
179°	0.3
179.5°	0.3

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Scaled Data Report



TEST NUMBER: P798569
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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{0.3}$

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

Report Prepared for

Cooper Lighting Solutions

HALO

Report Number: SP1-2401-294-3

Test Date: 03/08/2024

Luminaire Tested: LT4069FS1EWHR-3500K

Data in this report applies to families of products LT4069FS1EWHR-3500K.

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: SP1-2401-294-3
 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-3500K**
 Description: 4 INCH HALO LT 5CCT DOB .

Spectral Parameters

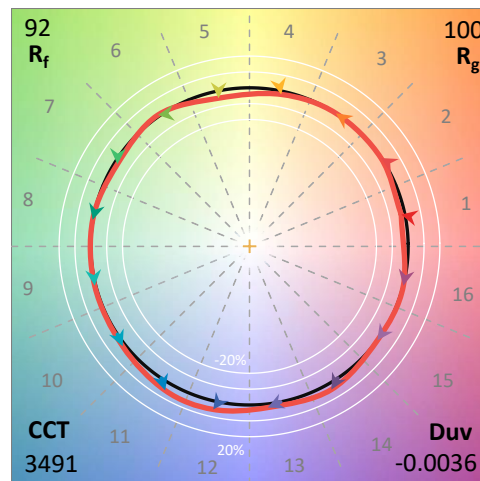
CCT (K): 3491
 CIE u': 0.2376
 CIE v': 0.5066
 Duv: -0.0036
 CIE x: 0.4020
 CIE y: 0.3809
 CIE z: 0.2171
 Peak Wavelength (nm): 632
 Dominant Wavelength (nm): 582
 Purity: 35.2

CRI (Ra):	96.7		
R1:	96.5	R9:	91.8
R2:	97.9	R10:	98.8
R3:	96.9	R11:	96.3
R4:	99.1	R12:	79.6
R5:	97.4	R13:	96.9
R6:	93.9	R14:	96.6
R7:	95.8		
R8:	96.1		

Rf: 91.8
 Rg: 100.4

Test Conditions

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



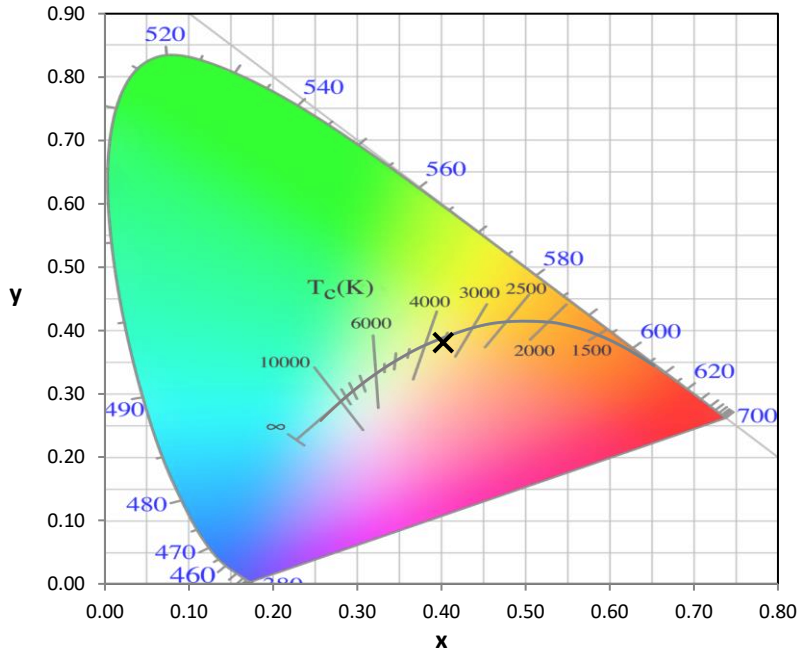
REPORT NUMBER: SP1-2401-294-3

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

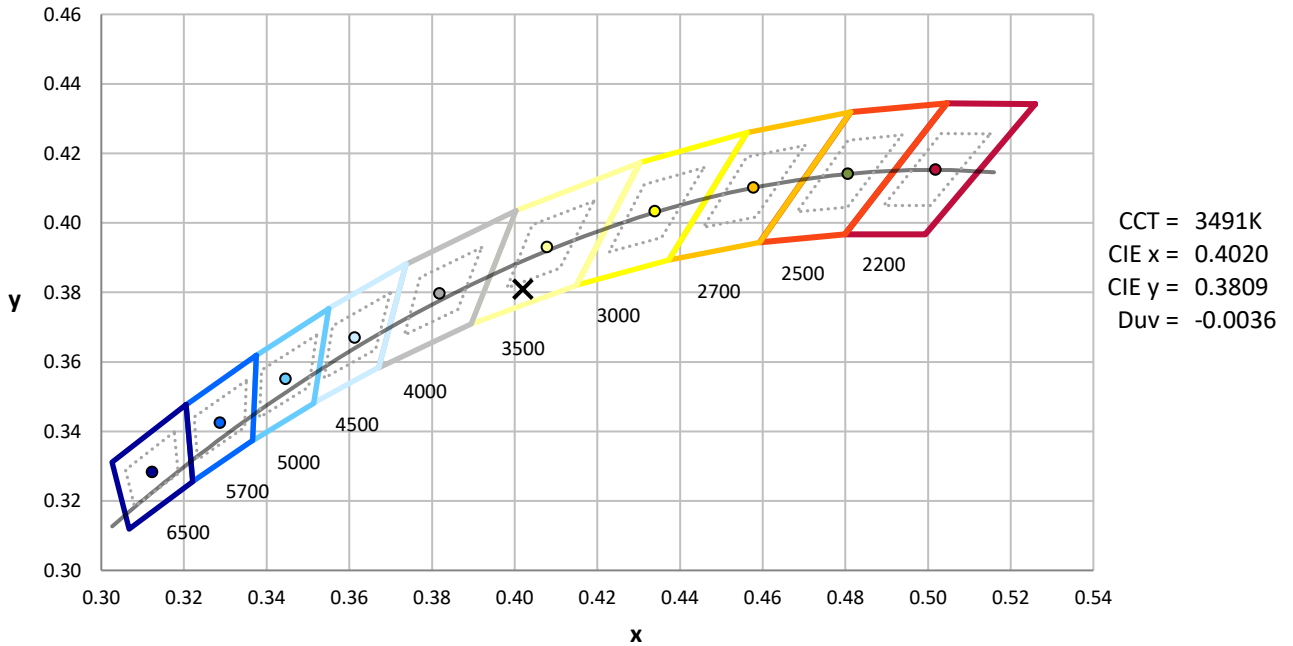
Sample Number	Condition	Description
2401-294-LM1	Good	LT4069FS1EWHR

REPORT NUMBER: SP1-2401-294-3

CIE 1931 Chromaticity Diagram



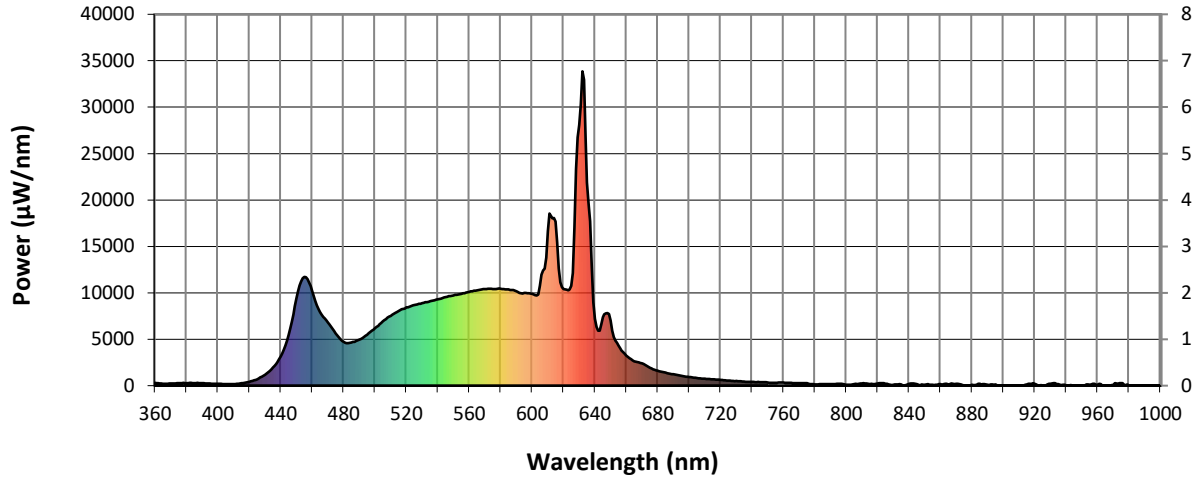
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

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Photopic Flux vs. Wavelength

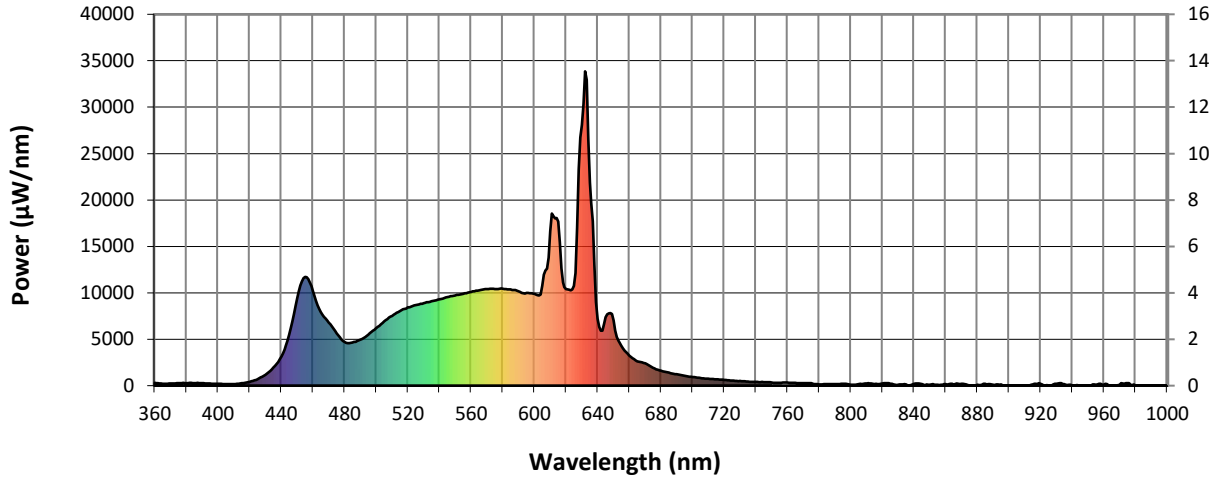


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λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)
360	309	NR	490	4964	NR	620	10402	NR	750	333	NR	880	87	NR
365	205	NR	495	5481	NR	625	10741	NR	755	300	NR	885	199	NR
370	225	NR	500	6189	NR	630	28088	NR	760	322	NR	890	89	NR
375	284	NR	505	6912	NR	635	21867	NR	765	302	NR	895	114	NR
380	281	NR	510	7525	NR	640	7209	NR	770	268	NR	900	0	NR
385	274	NR	515	8022	NR	645	7380	NR	775	256	NR	905	0	NR
390	259	NR	520	8425	NR	650	7011	NR	780	139	NR	910	0	NR
395	219	NR	525	8692	NR	655	4296	NR	785	178	NR	915	139	NR
400	197	NR	530	8874	NR	660	3245	NR	790	169	NR	920	196	NR
405	168	NR	535	9095	NR	665	2620	NR	795	200	NR	925	0	NR
410	171	NR	540	9302	NR	670	2401	NR	800	98	NR	930	198	NR
415	258	NR	545	9528	NR	675	1933	NR	805	154	NR	935	152	NR
420	411	NR	550	9697	NR	680	1599	NR	810	234	NR	940	37	NR
425	697	NR	555	9888	NR	685	1393	NR	815	172	NR	945	0	NR
430	1161	NR	560	10108	NR	690	1222	NR	820	244	NR	950	0	NR
435	1943	NR	565	10260	NR	695	1067	NR	825	217	NR	955	103	NR
440	3135	NR	570	10411	NR	700	939	NR	830	85	NR	960	87	NR
445	5466	NR	575	10402	NR	705	821	NR	835	115	NR	965	0	NR
450	9379	NR	580	10447	NR	710	743	NR	840	196	NR	970	64	NR
455	11712	NR	585	10377	NR	715	677	NR	845	167	NR	975	254	NR
460	10232	NR	590	10148	NR	720	617	NR	850	112	NR	980	0	NR
465	7909	NR	595	9978	NR	725	548	NR	855	111	NR	985	0	NR
470	6801	NR	600	9893	NR	730	496	NR	860	155	NR	990	0	NR
475	5624	NR	605	10742	NR	735	430	NR	865	141	NR	995	0	NR
480	4709	NR	610	16642	NR	740	412	NR	870	189	NR	1000	0	NR
485	4661	NR	615	17674	NR	745	382	NR	875	43	NR			

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Scotopic Flux vs. Wavelength



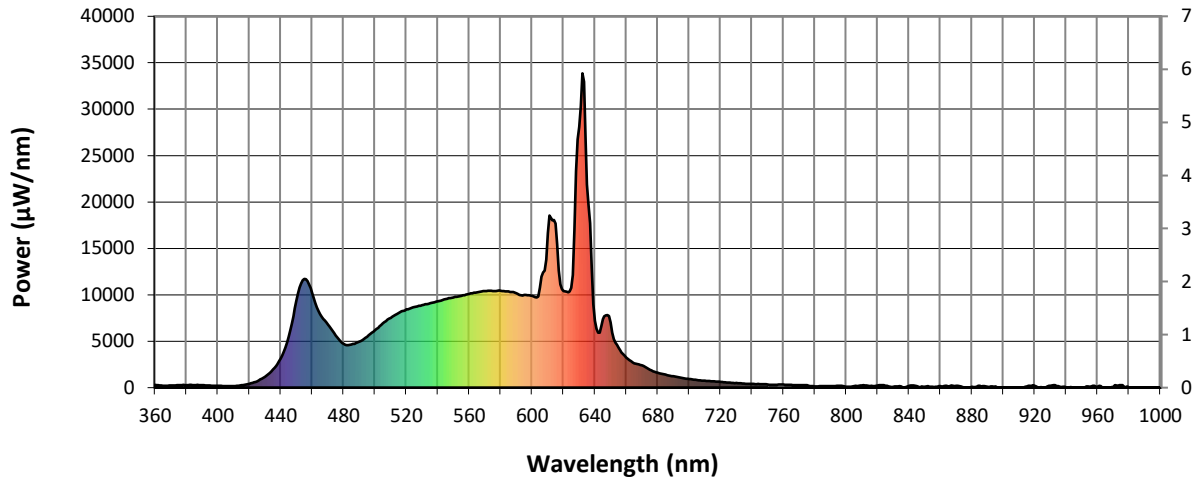
Scotopic Lumens: 1220.1

S/P: 1.69

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	309	NR	490	4964	NR	620	10402	NR	750	333	NR	880	87	NR
365	205	NR	495	5481	NR	625	10741	NR	755	300	NR	885	199	NR
370	225	NR	500	6189	NR	630	28088	NR	760	322	NR	890	89	NR
375	284	NR	505	6912	NR	635	21867	NR	765	302	NR	895	114	NR
380	281	NR	510	7525	NR	640	7209	NR	770	268	NR	900	0	NR
385	274	NR	515	8022	NR	645	7380	NR	775	256	NR	905	0	NR
390	259	NR	520	8425	NR	650	7011	NR	780	139	NR	910	0	NR
395	219	NR	525	8692	NR	655	4296	NR	785	178	NR	915	139	NR
400	197	NR	530	8874	NR	660	3245	NR	790	169	NR	920	196	NR
405	168	NR	535	9095	NR	665	2620	NR	795	200	NR	925	0	NR
410	171	NR	540	9302	NR	670	2401	NR	800	98	NR	930	198	NR
415	258	NR	545	9528	NR	675	1933	NR	805	154	NR	935	152	NR
420	411	NR	550	9697	NR	680	1599	NR	810	234	NR	940	37	NR
425	697	NR	555	9888	NR	685	1393	NR	815	172	NR	945	0	NR
430	1161	NR	560	10108	NR	690	1222	NR	820	244	NR	950	0	NR
435	1943	NR	565	10260	NR	695	1067	NR	825	217	NR	955	103	NR
440	3135	NR	570	10411	NR	700	939	NR	830	85	NR	960	87	NR
445	5466	NR	575	10402	NR	705	821	NR	835	115	NR	965	0	NR
450	9379	NR	580	10447	NR	710	743	NR	840	196	NR	970	64	NR
455	11712	NR	585	10377	NR	715	677	NR	845	167	NR	975	254	NR
460	10232	NR	590	10148	NR	720	617	NR	850	112	NR	980	0	NR
465	7909	NR	595	9978	NR	725	548	NR	855	111	NR	985	0	NR
470	6801	NR	600	9893	NR	730	496	NR	860	155	NR	990	0	NR
475	5624	NR	605	10742	NR	735	430	NR	865	141	NR	995	0	NR
480	4709	NR	610	16642	NR	740	412	NR	870	189	NR	1000	0	NR
485	4661	NR	615	17674	NR	745	382	NR	875	43	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 499.3 M/P: 0.69

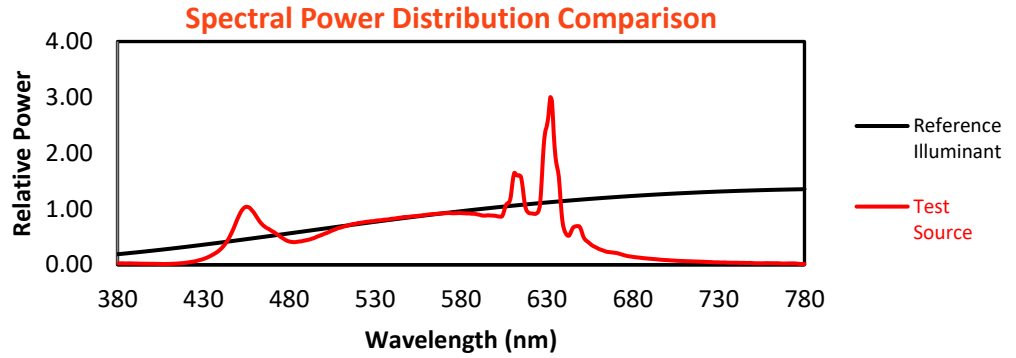
λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)
360	309	NR	490	4964	NR	620	10402	NR	750	333	NR	880	87	NR
365	205	NR	495	5481	NR	625	10741	NR	755	300	NR	885	199	NR
370	225	NR	500	6189	NR	630	28088	NR	760	322	NR	890	89	NR
375	284	NR	505	6912	NR	635	21867	NR	765	302	NR	895	114	NR
380	281	NR	510	7525	NR	640	7209	NR	770	268	NR	900	0	NR
385	274	NR	515	8022	NR	645	7380	NR	775	256	NR	905	0	NR
390	259	NR	520	8425	NR	650	7011	NR	780	139	NR	910	0	NR
395	219	NR	525	8692	NR	655	4296	NR	785	178	NR	915	139	NR
400	197	NR	530	8874	NR	660	3245	NR	790	169	NR	920	196	NR
405	168	NR	535	9095	NR	665	2620	NR	795	200	NR	925	0	NR
410	171	NR	540	9302	NR	670	2401	NR	800	98	NR	930	198	NR
415	258	NR	545	9528	NR	675	1933	NR	805	154	NR	935	152	NR
420	411	NR	550	9697	NR	680	1599	NR	810	234	NR	940	37	NR
425	697	NR	555	9888	NR	685	1393	NR	815	172	NR	945	0	NR
430	1161	NR	560	10108	NR	690	1222	NR	820	244	NR	950	0	NR
435	1943	NR	565	10260	NR	695	1067	NR	825	217	NR	955	103	NR
440	3135	NR	570	10411	NR	700	939	NR	830	85	NR	960	87	NR
445	5466	NR	575	10402	NR	705	821	NR	835	115	NR	965	0	NR
450	9379	NR	580	10447	NR	710	743	NR	840	196	NR	970	64	NR
455	11712	NR	585	10377	NR	715	677	NR	845	167	NR	975	254	NR
460	10232	NR	590	10148	NR	720	617	NR	850	112	NR	980	0	NR
465	7909	NR	595	9978	NR	725	548	NR	855	111	NR	985	0	NR
470	6801	NR	600	9893	NR	730	496	NR	860	155	NR	990	0	NR
475	5624	NR	605	10742	NR	735	430	NR	865	141	NR	995	0	NR
480	4709	NR	610	16642	NR	740	412	NR	870	189	NR	1000	0	NR
485	4661	NR	615	17674	NR	745	382	NR	875	43	NR			

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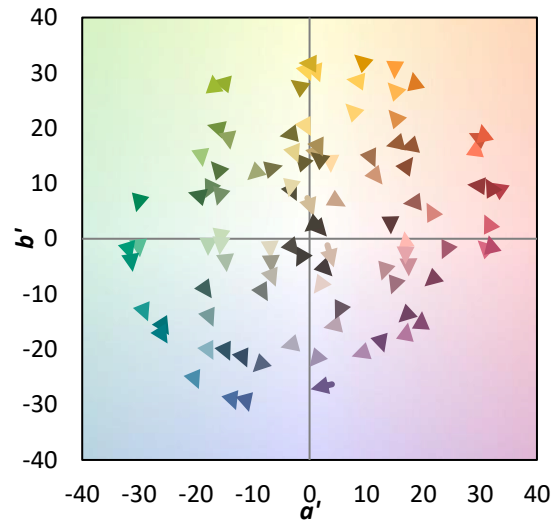
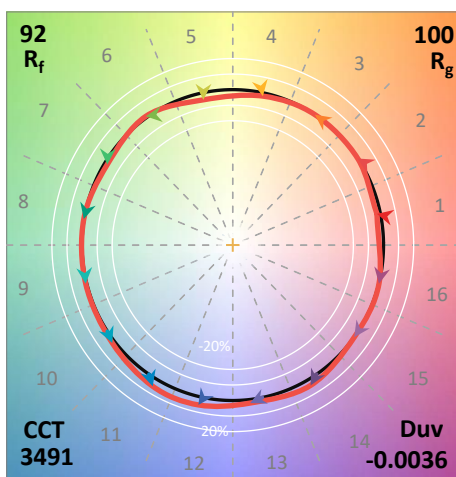
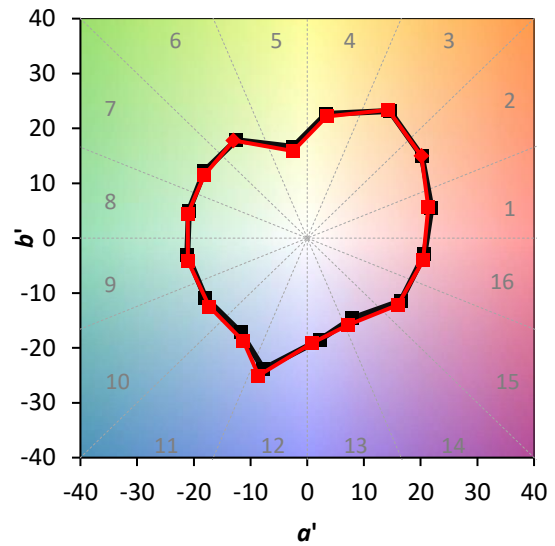
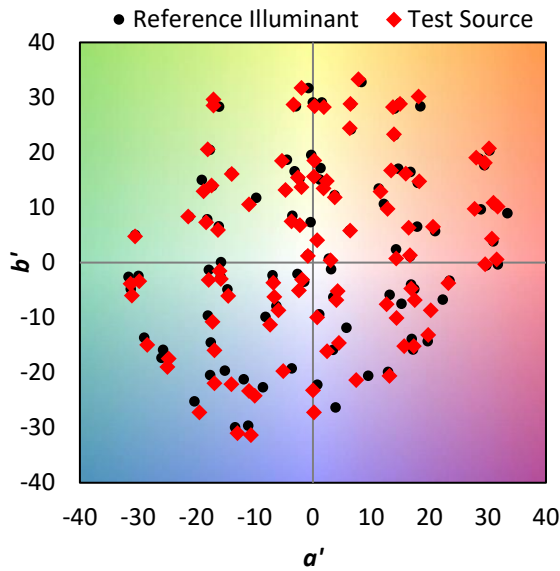
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Summary

$R_f = 91.8$
 $R_g = 100.4$
 CIE $R_a = 96.7$
 $R_9 = 91.8$



Color Vector Graphics

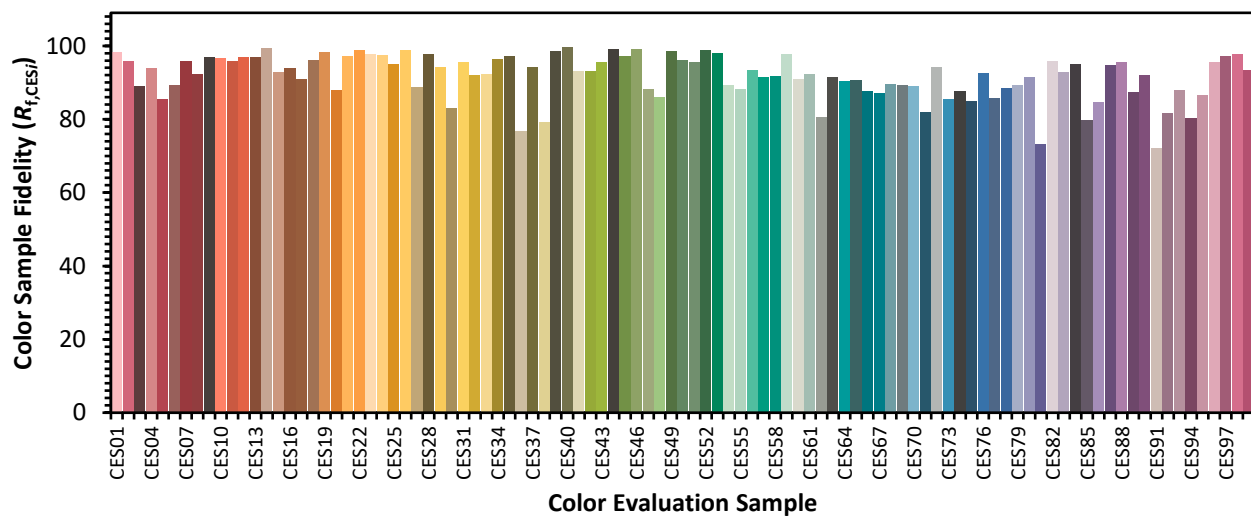


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Individual Sample Fidelity Index ($R_{f,i}$)

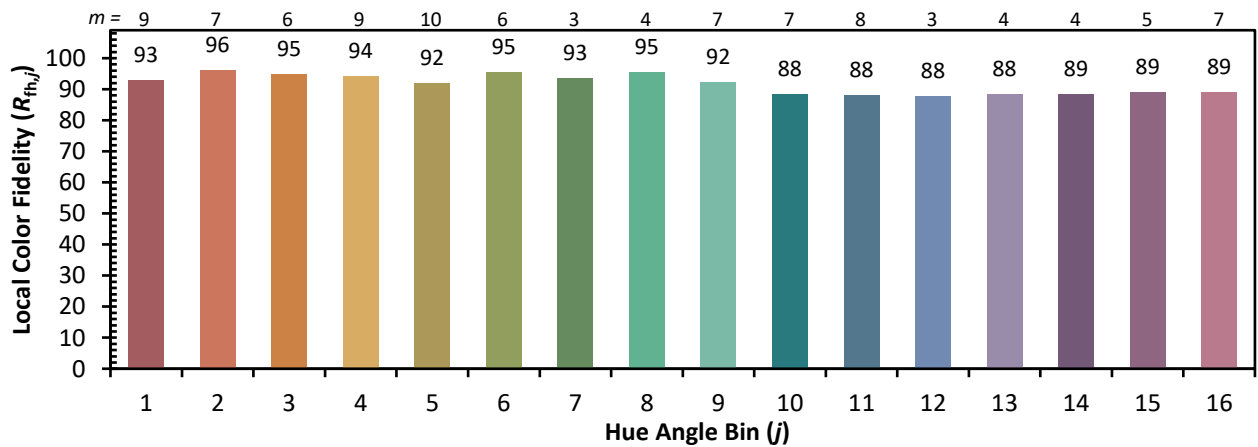
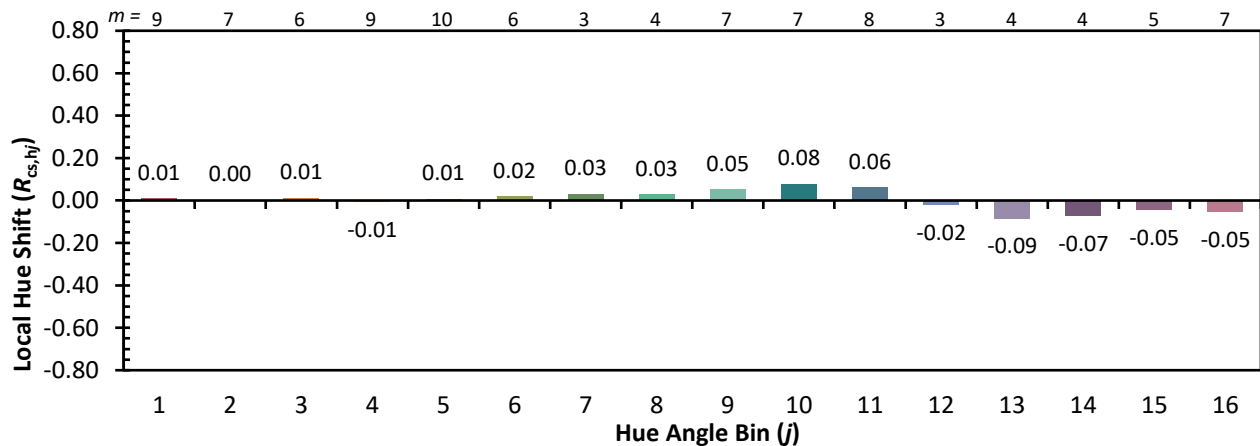
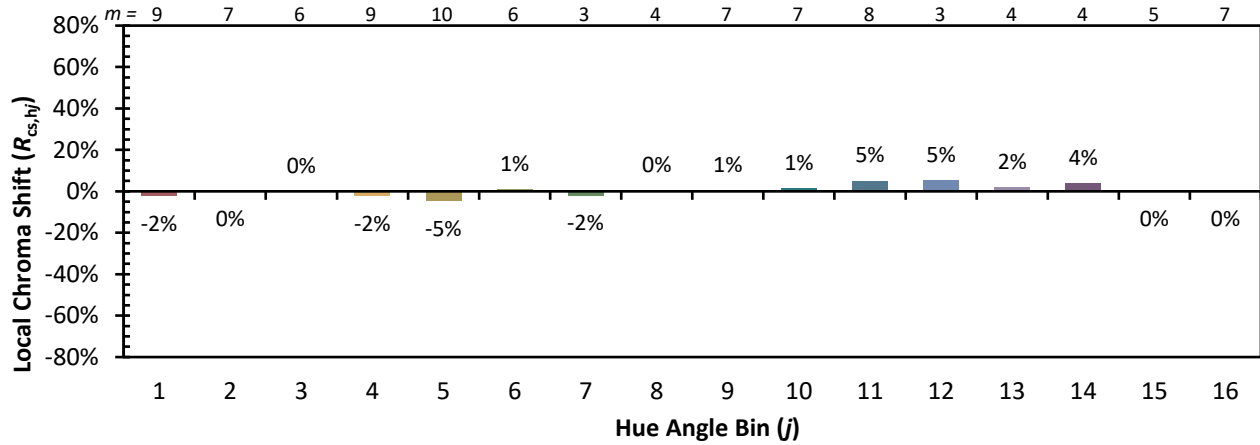
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CES02 = 63	CES27 = 89	CES52 = 99	CES77 = 86
CES03 = 32	CES28 = 98	CES53 = 98	CES78 = 88
CES04 = 70	CES29 = 94	CES54 = 89	CES79 = 89
CES05 = 50	CES30 = 83	CES55 = 88	CES80 = 91
CES06 = 51	CES31 = 96	CES56 = 93	CES81 = 73
CES07 = 43	CES32 = 92	CES57 = 91	CES82 = 96
CES08 = 42	CES33 = 92	CES58 = 92	CES83 = 93
CES09 = 29	CES34 = 96	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 91	CES85 = 80
CES11 = 58	CES36 = 77	CES61 = 92	CES86 = 85
CES12 = 64	CES37 = 94	CES62 = 81	CES87 = 95
CES13 = 44	CES38 = 79	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 90	CES89 = 87
CES15 = 72	CES40 = 100	CES65 = 91	CES90 = 92
CES16 = 48	CES41 = 93	CES66 = 88	CES91 = 72
CES17 = 49	CES42 = 93	CES67 = 87	CES92 = 82
CES18 = 56	CES43 = 95	CES68 = 90	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 80
CES20 = 67	CES45 = 97	CES70 = 89	CES95 = 86
CES21 = 86	CES46 = 99	CES71 = 82	CES96 = 96
CES22 = 78	CES47 = 88	CES72 = 94	CES97 = 97
CES23 = 91	CES48 = 86	CES73 = 86	CES98 = 98
CES24 = 90	CES49 = 98	CES74 = 88	CES99 = 93
CES25 = 71	CES50 = 96	CES75 = 85	



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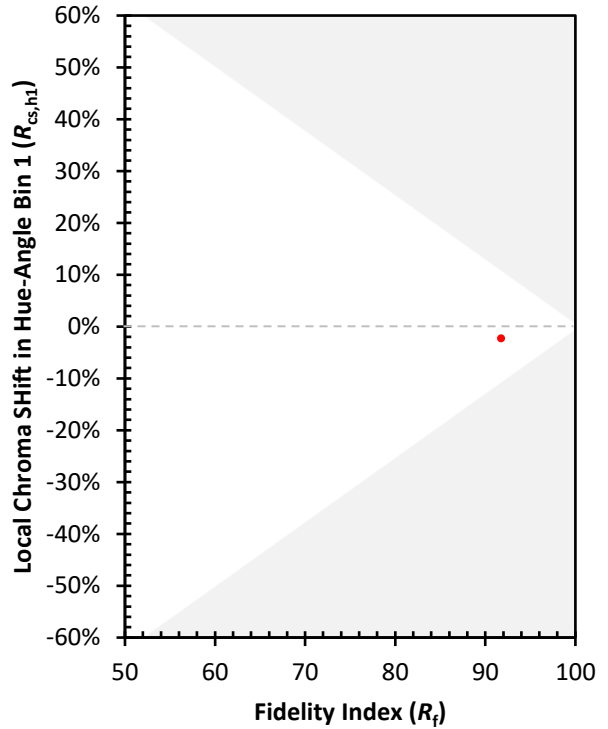
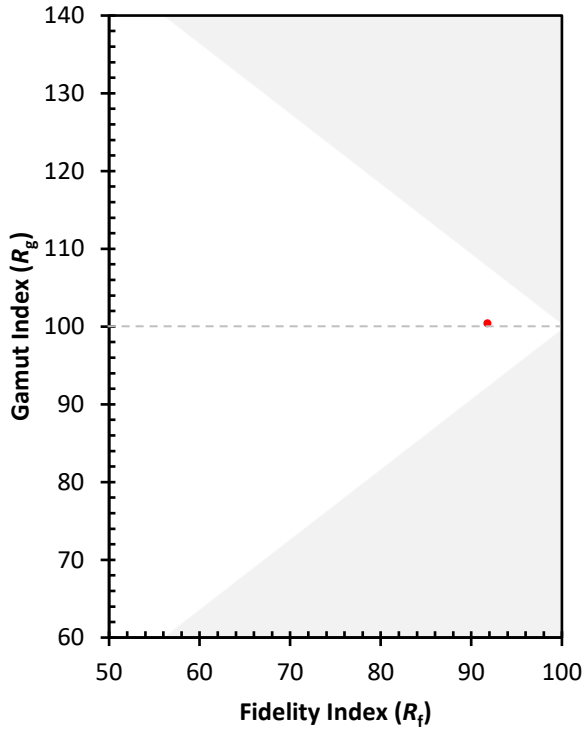
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)