

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: P798553

Luminaire Tested: **LT4069FS1EWHR-930**

Issue Date: 04/03/2024



Test Information

Test Method: LM-79-08
Report Number: P798553
Test Lab: ETA Testing Technology(A2)
Issue Date: 04/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LT4069FS1EWHR-930
Description: 4 inch 90 CRI COLOR TUNING RECESSED DOWNLIGHT with DRIVER ON BOARD
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

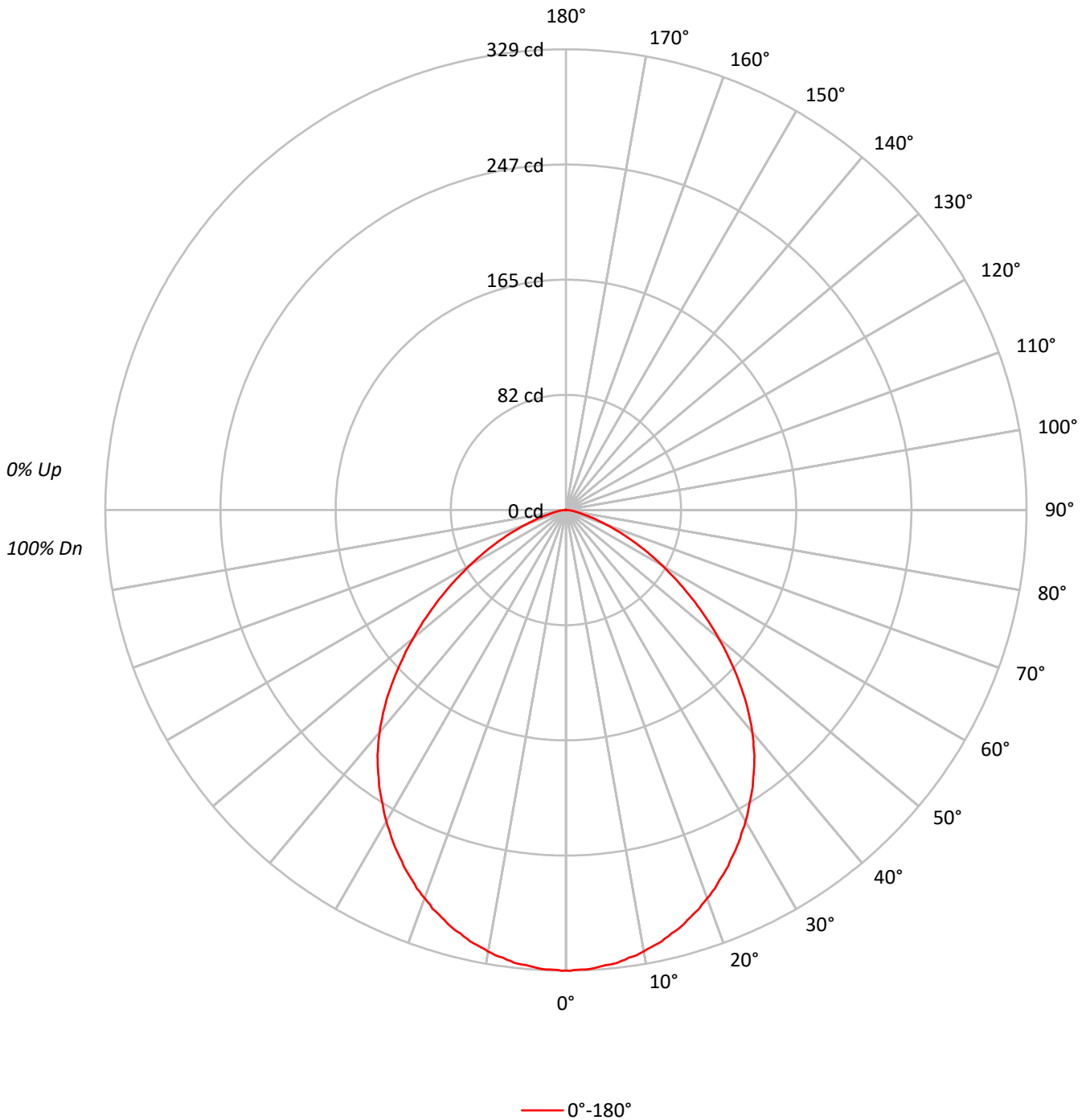
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 0.3' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
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	100	93	88	83	90	85	81	87	83	80	84	81	78	76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66			
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57			
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51			
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45			
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40			
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36			
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50084
5°	49878
10°	49496
15°	48840
20°	47805
25°	46558
30°	45119
35°	43351
40°	41149
45°	37859
50°	33711
55°	29151
60°	24304
65°	19241
70°	14025
75°	9061
80°	6314
85°	5067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	4.4
10°-20°	87.2	12.5
20°-30°	127.6	18.2
30°-40°	145.7	20.8
40°-50°	135.2	19.3
50°-60°	98.3	14.1
60°-70°	53.4	7.6
70°-80°	17.7	2.5
80°-90°	3.3	0.5
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°	245.7	35.1
0°-40°	391.4	55.9
0°-60°	624.9	89.3
0°-90°	699.2	99.9
90°-120°	0.1	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	699.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	329	
5°	326	31
15°	310	87
25°	277	128
35°	233	146
45°	176	135
55°	110	98
65°	53	53
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°	328.9
0.5°	329.1
1°	328.5
1.5°	328.5
2°	328.3
2.5°	328.5
3°	328.2
3.5°	327.9
4°	327.2
4.5°	326.7
5°	326.3
5.5°	326.2
6°	325.8
6.5°	325.4
7°	324.4
7.5°	323.9
8°	322.9
8.5°	322.5
9°	322.0
9.5°	320.9
10°	320.1
10.5°	319.0
11°	318.1
11.5°	317.2
12°	316.5
12.5°	315.6
13°	314.1
13.5°	313.0
14°	311.6
14.5°	310.8
15°	309.8
15.5°	308.5
16°	307.1
16.5°	305.5
17°	304.2
17.5°	302.7
18°	301.4
18.5°	300.2
19°	298.1
19.5°	296.7
20°	295.0
20.5°	293.7
21°	291.9
21.5°	290.5
22°	288.4



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CANDELA DISTRIBUTION (continued):

	0°
22.5°	286.4
23°	284.7
23.5°	283.1
24°	281.2
24.5°	279.5
25°	277.1
25.5°	275.1
26°	273.2
26.5°	271.4
27°	269.4
27.5°	267.4
28°	265.3
28.5°	262.8
29°	260.7
29.5°	258.9
30°	256.6
30.5°	254.5
31°	252.2
31.5°	249.8
32°	247.3
32.5°	245.1
33°	242.9
33.5°	240.7
34°	238.5
34.5°	235.8
35°	233.2
35.5°	230.9
36°	228.6
36.5°	226.1
37°	223.4
37.5°	221.2
38°	218.1
38.5°	215.3
39°	212.8
39.5°	210.1
40°	207.0
40.5°	204.2
41°	201.1
41.5°	197.9
42°	195.1
42.5°	192.1
43°	188.9
43.5°	185.9
44°	182.4
44.5°	179.1



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CANDELA DISTRIBUTION (continued):

	0°
45°	175.8
45.5°	172.6
46°	169.4
46.5°	166.0
47°	162.6
47.5°	159.1
48°	155.8
48.5°	152.7
49°	149.3
49.5°	145.7
50°	142.3
50.5°	139.0
51°	135.7
51.5°	132.5
52°	129.3
52.5°	125.7
53°	122.4
53.5°	119.3
54°	116.1
54.5°	113.0
55°	109.8
55.5°	106.6
56°	103.4
56.5°	100.5
57°	97.4
57.5°	94.5
58°	91.5
58.5°	88.4
59°	85.4
59.5°	82.6
60°	79.8
60.5°	77.0
61°	74.2
61.5°	71.5
62°	68.7
62.5°	66.1
63°	63.5
63.5°	60.9
64°	58.4
64.5°	55.8
65°	53.4
65.5°	50.9
66°	48.5
66.5°	46.2
67°	43.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	41.7
68°	39.4
68.5°	37.3
69°	35.3
69.5°	33.4
70°	31.5
70.5°	29.5
71°	27.6
71.5°	25.8
72°	24.1
72.5°	22.5
73°	20.9
73.5°	19.4
74°	17.9
74.5°	16.6
75°	15.4
75.5°	14.3
76°	13.2
76.5°	12.2
77°	11.3
77.5°	10.5
78°	9.8
78.5°	9.1
79°	8.4
79.5°	7.8
80°	7.2
80.5°	6.8
81°	6.4
81.5°	5.9
82°	5.4
82.5°	5.0
83°	4.6
83.5°	4.1
84°	3.7
84.5°	3.3
85°	2.9
85.5°	2.5
86°	2.1
86.5°	1.7
87°	1.3
87.5°	1.0
88°	0.6
88.5°	0.2
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°	0.0
107°	0.0
107.5°	0.0
108°	0.0
108.5°	0.0
109°	0.0
109.5°	0.0
110°	0.0
110.5°	0.0
111°	0.0
111.5°	0.0
112°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
113°	0.0
113.5°	0.0
114°	0.0
114.5°	0.0
115°	0.0
115.5°	0.0
116°	0.0
116.5°	0.0
117°	0.0
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°	0.1
137°	0.1
137.5°	0.1
138°	0.1
138.5°	0.1
139°	0.1
139.5°	0.1
140°	0.1
140.5°	0.1
141°	0.1
141.5°	0.1
142°	0.1
142.5°	0.1
143°	0.1
143.5°	0.1
144°	0.1
144.5°	0.1
145°	0.1
145.5°	0.1
146°	0.1
146.5°	0.1
147°	0.1
147.5°	0.1
148°	0.1
148.5°	0.1
149°	0.1
149.5°	0.1
150°	0.1
150.5°	0.1
151°	0.1
151.5°	0.1
152°	0.1
152.5°	0.1
153°	0.1
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



TEST NUMBER: P798553
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CANDELA DISTRIBUTION (continued):

0°
180° | 0.2

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

Report Prepared for

Cooper Lighting Solutions

HALO

Report Number: SP1-2401-294-2

Test Date: 03/08/2024

Luminaire Tested: LT4069FS1EWHR-3000K

Data in this report applies to families of products LT4069FS1EWHR-3000K.

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: SP1-2401-294-2
 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-3000K**
 Description: 4 INCH HALO LT 5CCT DOB .

Spectral Parameters

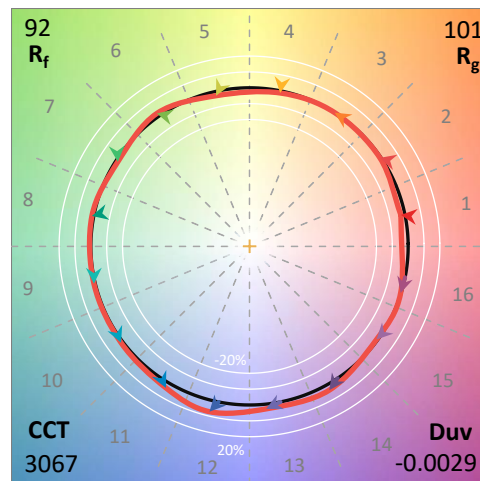
CCT (K): 3067
 CIE u': 0.2493
 CIE v': 0.5160
 Duv: -0.0029
 CIE x: 0.4281
 CIE y: 0.3939
 CIE z: 0.1780
 Peak Wavelength (nm): 632
 Dominant Wavelength (nm): 583
 Purity: 47.1

CRI (Ra):	96.6		
R1:	97.7	R9:	84.5
R2:	98.6	R10:	98.3
R3:	96.8	R11:	95.9
R4:	98.6	R12:	83.9
R5:	98.4	R13:	98.0
R6:	94.2	R14:	96.4
R7:	94.9		
R8:	93.4		

Rf: 92.4
 Rg: 101.1

Test Conditions

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



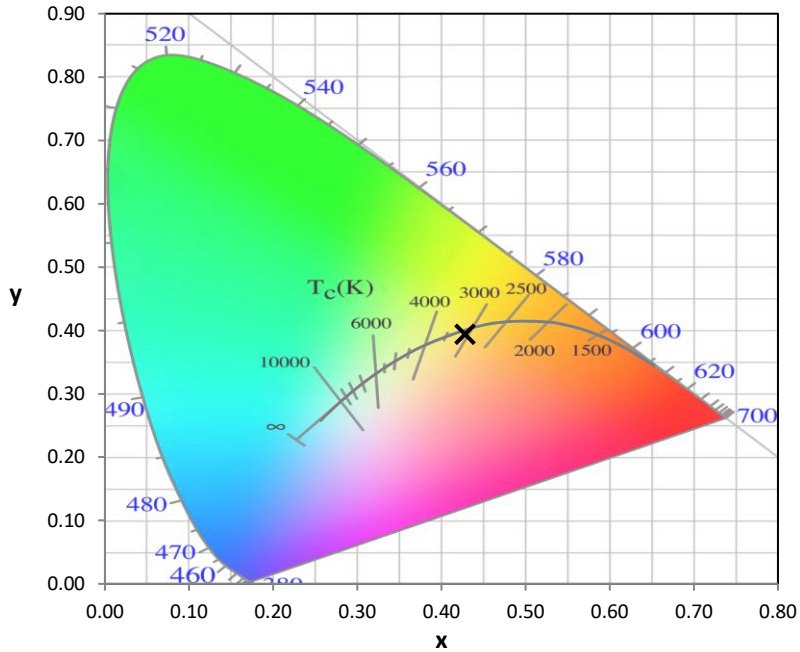
REPORT NUMBER: SP1-2401-294-2

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

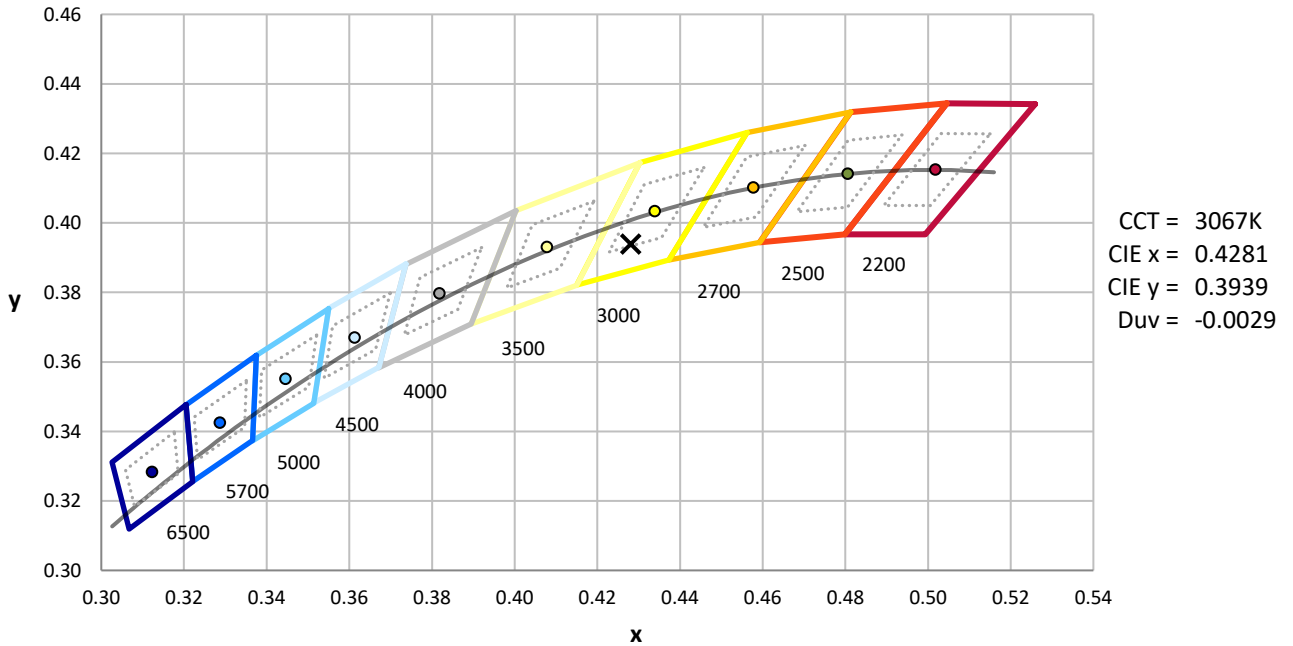
Sample Number	Condition	Description
2401-294-LM1	Good	LT4069FS1EWHR

REPORT NUMBER: SP1-2401-294-2

CIE 1931 Chromaticity Diagram



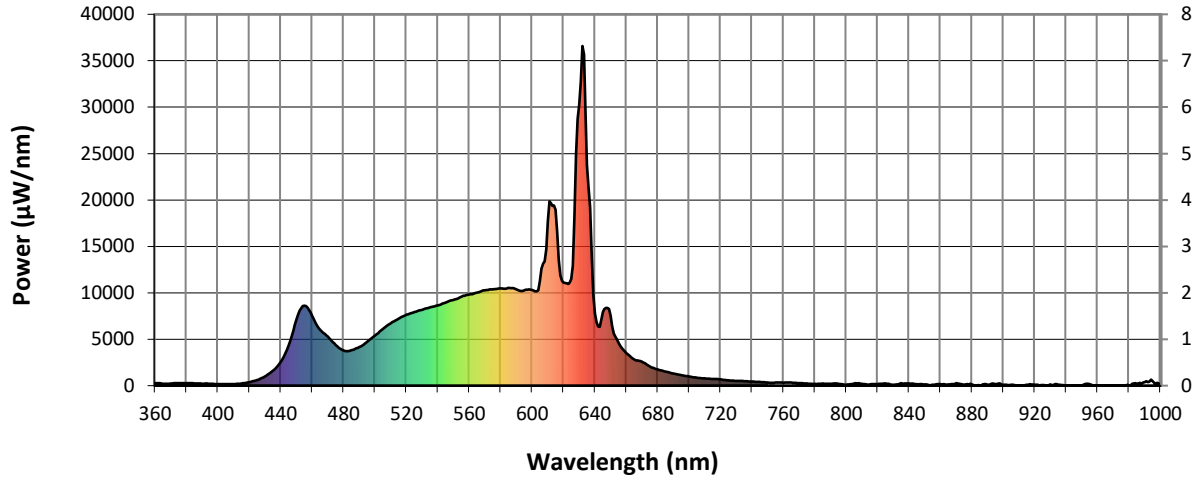
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

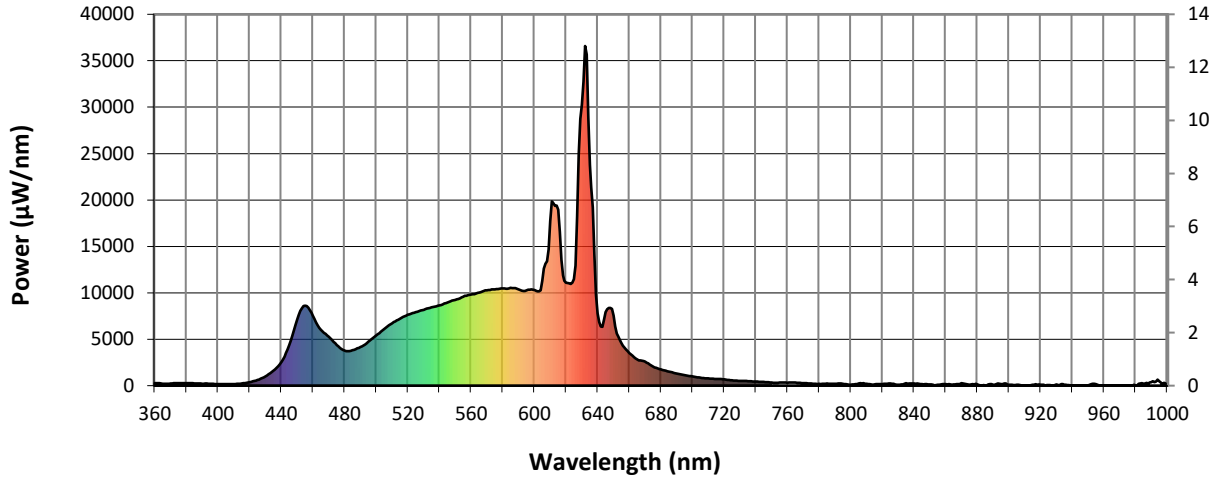


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λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	275	NR	490	4160	NR	620	11095	NR	750	326	NR	880	141	NR
365	192	NR	495	4705	NR	625	11468	NR	755	329	NR	885	28	NR
370	225	NR	500	5405	NR	630	30287	NR	760	318	NR	890	107	NR
375	267	NR	505	6088	NR	635	23784	NR	765	338	NR	895	177	NR
380	262	NR	510	6708	NR	640	7786	NR	770	272	NR	900	110	NR
385	248	NR	515	7195	NR	645	7907	NR	775	228	NR	905	106	NR
390	208	NR	520	7633	NR	650	7530	NR	780	189	NR	910	0	NR
395	213	NR	525	7908	NR	655	4629	NR	785	227	NR	915	92	NR
400	156	NR	530	8179	NR	660	3515	NR	790	206	NR	920	80	NR
405	165	NR	535	8435	NR	665	2809	NR	795	199	NR	925	67	NR
410	167	NR	540	8662	NR	670	2575	NR	800	92	NR	930	123	NR
415	233	NR	545	8962	NR	675	2055	NR	805	221	NR	935	90	NR
420	369	NR	550	9240	NR	680	1743	NR	810	214	NR	940	0	NR
425	615	NR	555	9581	NR	685	1513	NR	815	143	NR	945	0	NR
430	1001	NR	560	9804	NR	690	1296	NR	820	168	NR	950	43	NR
435	1603	NR	565	10020	NR	695	1138	NR	825	224	NR	955	157	NR
440	2527	NR	570	10279	NR	700	993	NR	830	88	NR	960	0	NR
445	4326	NR	575	10362	NR	705	841	NR	835	267	NR	965	20	NR
450	7104	NR	580	10482	NR	710	771	NR	840	232	NR	970	0	NR
455	8611	NR	585	10544	NR	715	726	NR	845	153	NR	975	12	NR
460	7538	NR	590	10380	NR	720	680	NR	850	146	NR	980	20	NR
465	6028	NR	595	10280	NR	725	569	NR	855	112	NR	985	205	NR
470	5257	NR	600	10304	NR	730	517	NR	860	162	NR	990	382	NR
475	4382	NR	605	11273	NR	735	481	NR	865	130	NR	995	489	NR
480	3793	NR	610	17743	NR	740	431	NR	870	263	NR	1000	0	NR
485	3810	NR	615	18962	NR	745	401	NR	875	104	NR			

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Scotopic Flux vs. Wavelength



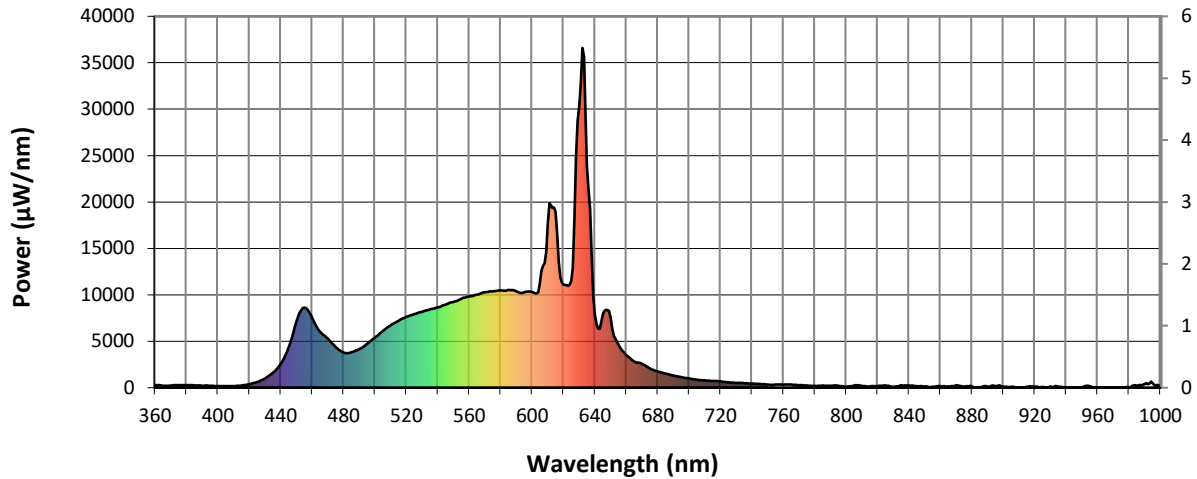
Scotopic Lumens: 1069

S/P: 1.51

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	275	NR	490	4160	NR	620	11095	NR	750	326	NR	880	141	NR
365	192	NR	495	4705	NR	625	11468	NR	755	329	NR	885	28	NR
370	225	NR	500	5405	NR	630	30287	NR	760	318	NR	890	107	NR
375	267	NR	505	6088	NR	635	23784	NR	765	338	NR	895	177	NR
380	262	NR	510	6708	NR	640	7786	NR	770	272	NR	900	110	NR
385	248	NR	515	7195	NR	645	7907	NR	775	228	NR	905	106	NR
390	208	NR	520	7633	NR	650	7530	NR	780	189	NR	910	0	NR
395	213	NR	525	7908	NR	655	4629	NR	785	227	NR	915	92	NR
400	156	NR	530	8179	NR	660	3515	NR	790	206	NR	920	80	NR
405	165	NR	535	8435	NR	665	2809	NR	795	199	NR	925	67	NR
410	167	NR	540	8662	NR	670	2575	NR	800	92	NR	930	123	NR
415	233	NR	545	8962	NR	675	2055	NR	805	221	NR	935	90	NR
420	369	NR	550	9240	NR	680	1743	NR	810	214	NR	940	0	NR
425	615	NR	555	9581	NR	685	1513	NR	815	143	NR	945	0	NR
430	1001	NR	560	9804	NR	690	1296	NR	820	168	NR	950	43	NR
435	1603	NR	565	10020	NR	695	1138	NR	825	224	NR	955	157	NR
440	2527	NR	570	10279	NR	700	993	NR	830	88	NR	960	0	NR
445	4326	NR	575	10362	NR	705	841	NR	835	267	NR	965	20	NR
450	7104	NR	580	10482	NR	710	771	NR	840	232	NR	970	0	NR
455	8611	NR	585	10544	NR	715	726	NR	845	153	NR	975	12	NR
460	7538	NR	590	10380	NR	720	680	NR	850	146	NR	980	20	NR
465	6028	NR	595	10280	NR	725	569	NR	855	112	NR	985	205	NR
470	5257	NR	600	10304	NR	730	517	NR	860	162	NR	990	382	NR
475	4382	NR	605	11273	NR	735	481	NR	865	130	NR	995	489	NR
480	3793	NR	610	17743	NR	740	431	NR	870	263	NR	1000	0	NR
485	3810	NR	615	18962	NR	745	401	NR	875	104	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 422.7

M/P: 0.6

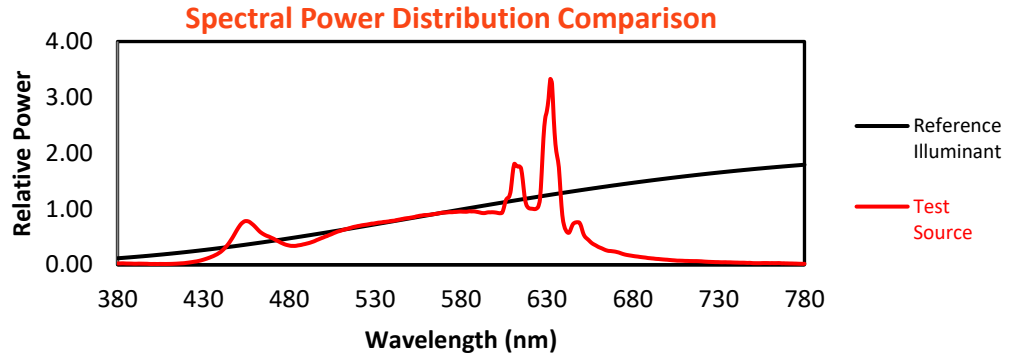
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	275	NR	490	4160	NR	620	11095	NR	750	326	NR	880	141	NR
365	192	NR	495	4705	NR	625	11468	NR	755	329	NR	885	28	NR
370	225	NR	500	5405	NR	630	30287	NR	760	318	NR	890	107	NR
375	267	NR	505	6088	NR	635	23784	NR	765	338	NR	895	177	NR
380	262	NR	510	6708	NR	640	7786	NR	770	272	NR	900	110	NR
385	248	NR	515	7195	NR	645	7907	NR	775	228	NR	905	106	NR
390	208	NR	520	7633	NR	650	7530	NR	780	189	NR	910	0	NR
395	213	NR	525	7908	NR	655	4629	NR	785	227	NR	915	92	NR
400	156	NR	530	8179	NR	660	3515	NR	790	206	NR	920	80	NR
405	165	NR	535	8435	NR	665	2809	NR	795	199	NR	925	67	NR
410	167	NR	540	8662	NR	670	2575	NR	800	92	NR	930	123	NR
415	233	NR	545	8962	NR	675	2055	NR	805	221	NR	935	90	NR
420	369	NR	550	9240	NR	680	1743	NR	810	214	NR	940	0	NR
425	615	NR	555	9581	NR	685	1513	NR	815	143	NR	945	0	NR
430	1001	NR	560	9804	NR	690	1296	NR	820	168	NR	950	43	NR
435	1603	NR	565	10020	NR	695	1138	NR	825	224	NR	955	157	NR
440	2527	NR	570	10279	NR	700	993	NR	830	88	NR	960	0	NR
445	4326	NR	575	10362	NR	705	841	NR	835	267	NR	965	20	NR
450	7104	NR	580	10482	NR	710	771	NR	840	232	NR	970	0	NR
455	8611	NR	585	10544	NR	715	726	NR	845	153	NR	975	12	NR
460	7538	NR	590	10380	NR	720	680	NR	850	146	NR	980	20	NR
465	6028	NR	595	10280	NR	725	569	NR	855	112	NR	985	205	NR
470	5257	NR	600	10304	NR	730	517	NR	860	162	NR	990	382	NR
475	4382	NR	605	11273	NR	735	481	NR	865	130	NR	995	489	NR
480	3793	NR	610	17743	NR	740	431	NR	870	263	NR	1000	0	NR
485	3810	NR	615	18962	NR	745	401	NR	875	104	NR			

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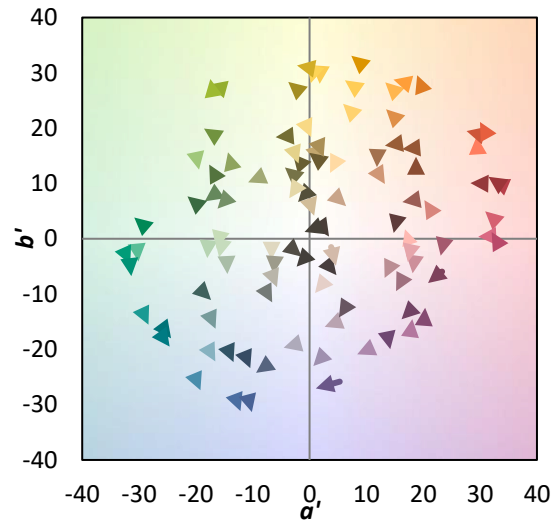
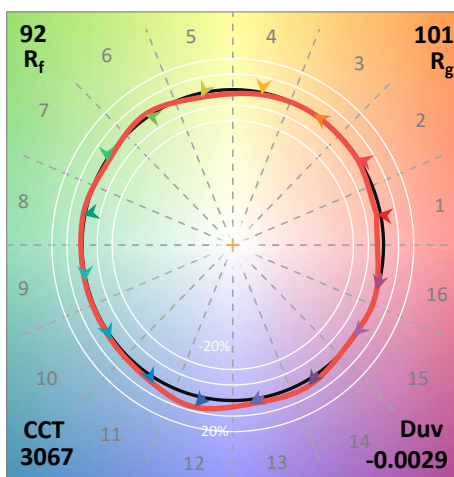
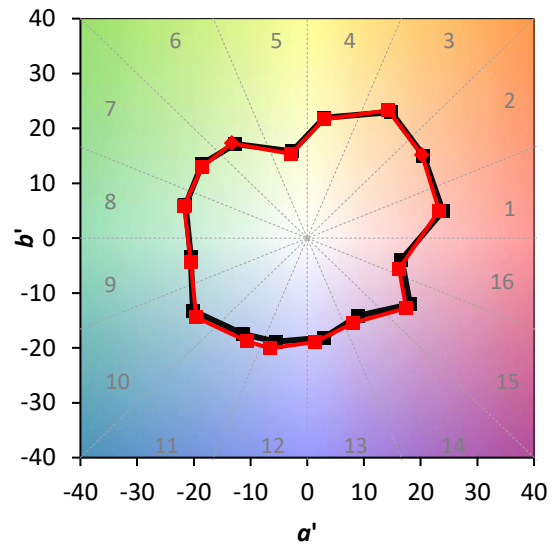
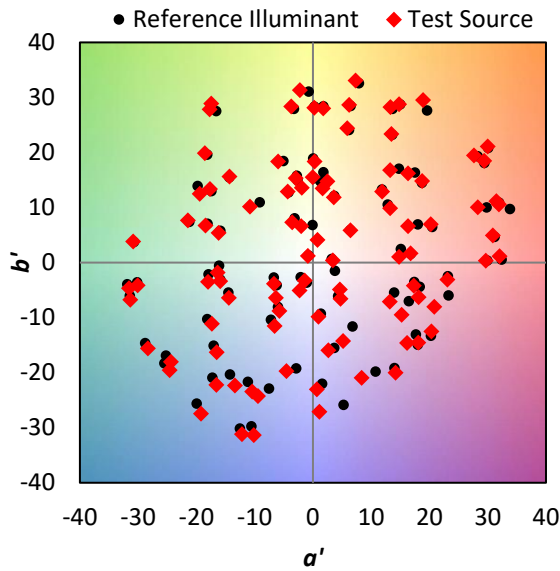
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Summary

$R_f = 92.4$
 $R_g = 101.1$
 CIE $R_a = 96.6$
 $R_9 = 84.5$



Color Vector Graphics

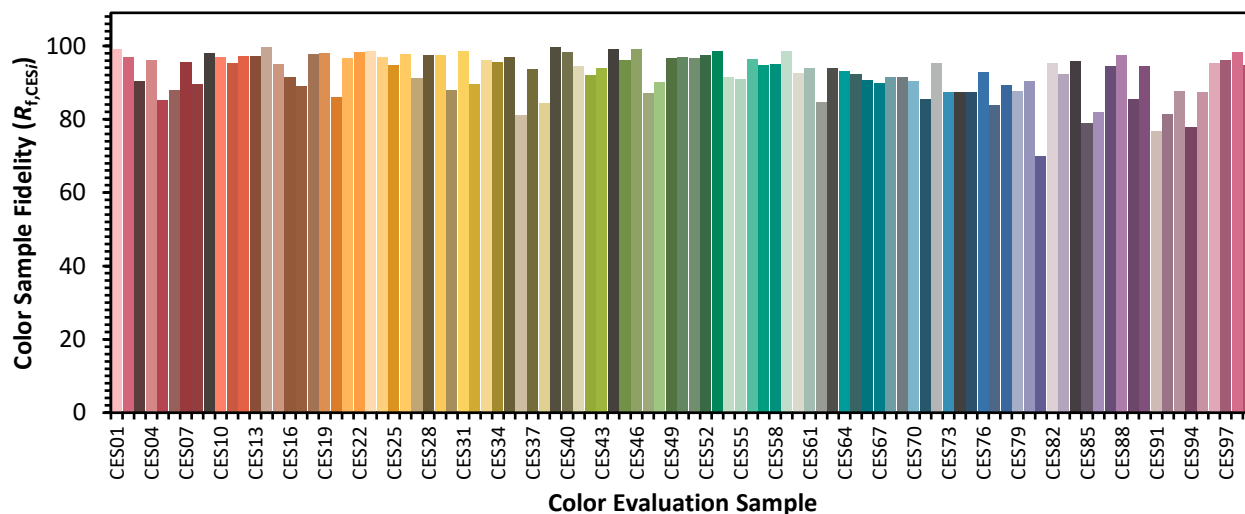


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Individual Sample Fidelity Index ($R_{f,i}$)

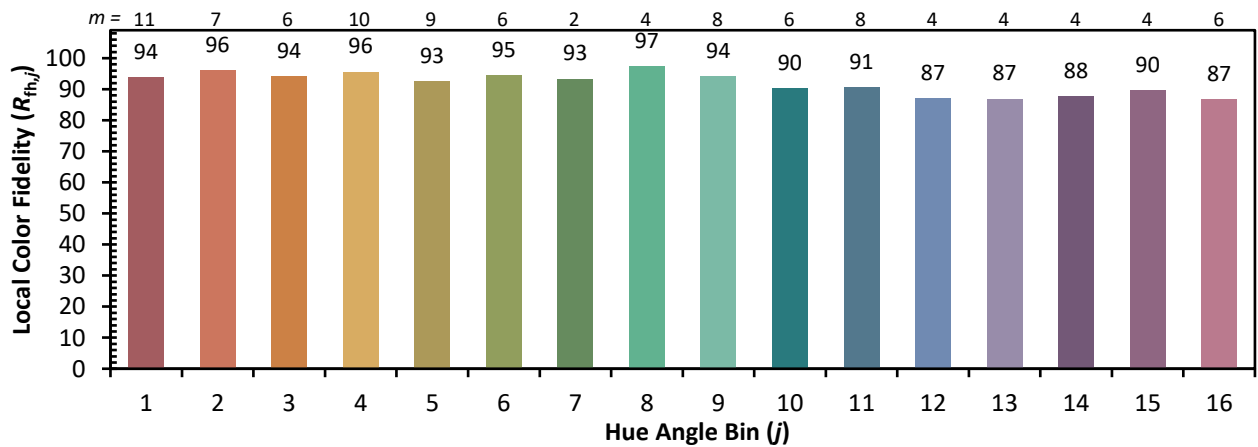
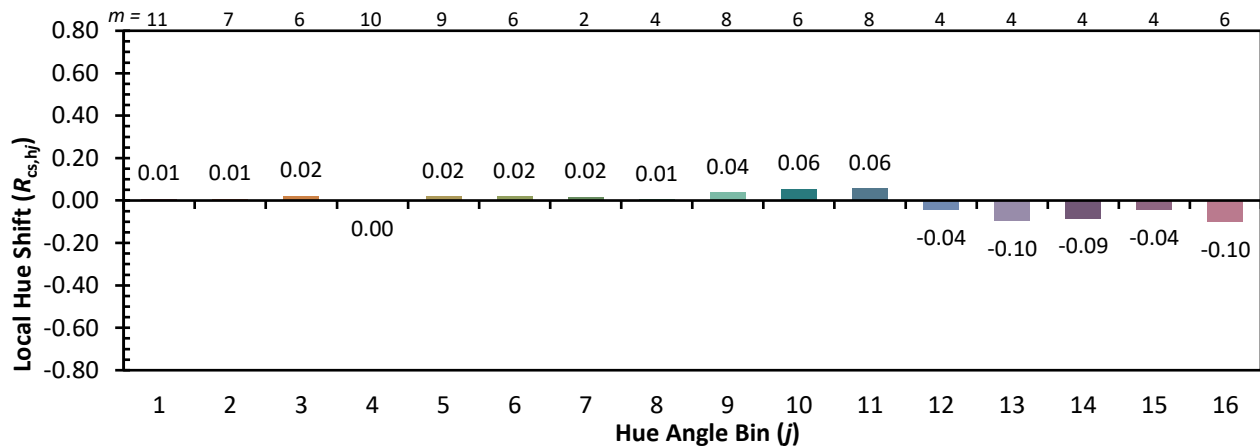
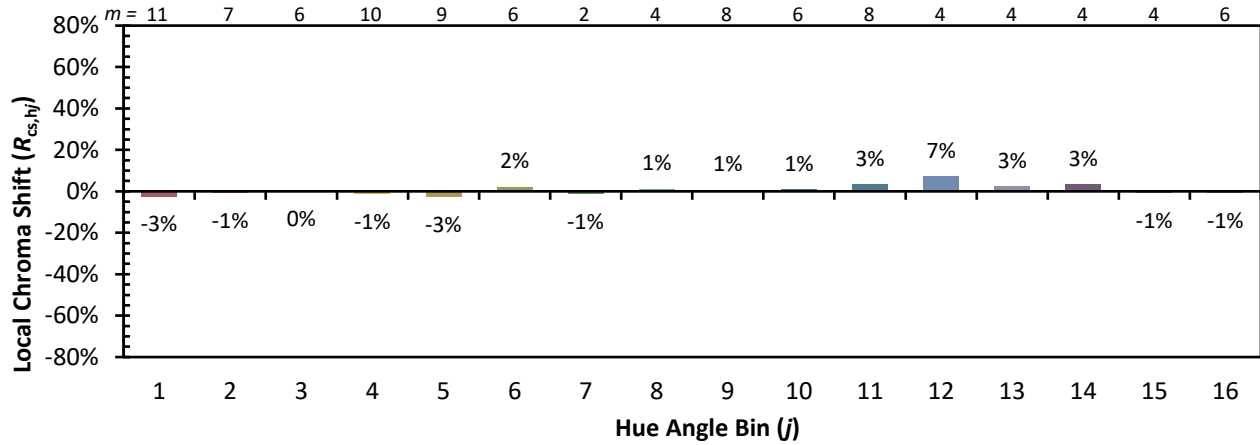
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CES03 = 32	CES28 = 97	CES53 = 99	CES78 = 89
CES04 = 70	CES29 = 97	CES54 = 92	CES79 = 88
CES05 = 51	CES30 = 88	CES55 = 91	CES80 = 90
CES06 = 51	CES31 = 99	CES56 = 96	CES81 = 70
CES07 = 44	CES32 = 90	CES57 = 95	CES82 = 95
CES08 = 43	CES33 = 96	CES58 = 95	CES83 = 92
CES09 = 29	CES34 = 95	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 97	CES60 = 93	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 94	CES86 = 82
CES12 = 65	CES37 = 94	CES62 = 85	CES87 = 94
CES13 = 44	CES38 = 84	CES63 = 94	CES88 = 97
CES14 = 74	CES39 = 100	CES64 = 93	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 92	CES90 = 94
CES16 = 48	CES41 = 94	CES66 = 91	CES91 = 77
CES17 = 50	CES42 = 92	CES67 = 90	CES92 = 81
CES18 = 57	CES43 = 94	CES68 = 91	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 78
CES20 = 67	CES45 = 96	CES70 = 90	CES95 = 87
CES21 = 86	CES46 = 99	CES71 = 85	CES96 = 95
CES22 = 79	CES47 = 87	CES72 = 95	CES97 = 96
CES23 = 91	CES48 = 90	CES73 = 87	CES98 = 98
CES24 = 90	CES49 = 97	CES74 = 87	CES99 = 95
CES25 = 71	CES50 = 97	CES75 = 87	



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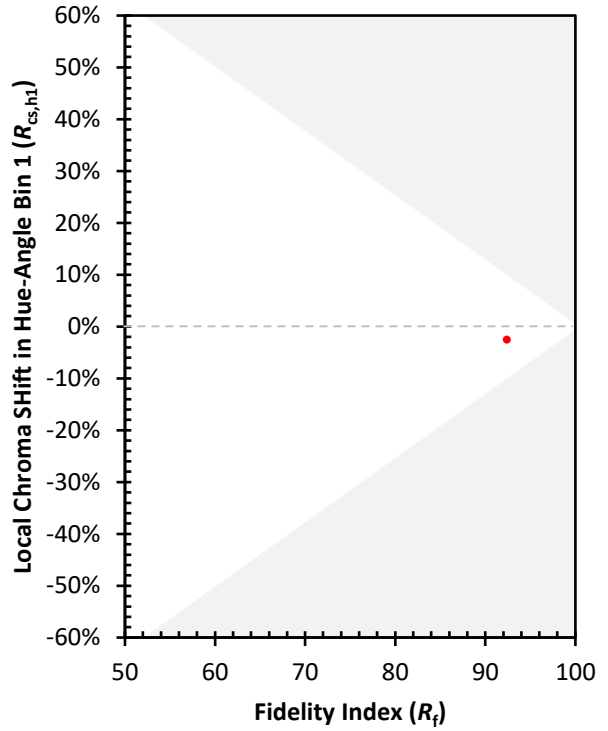
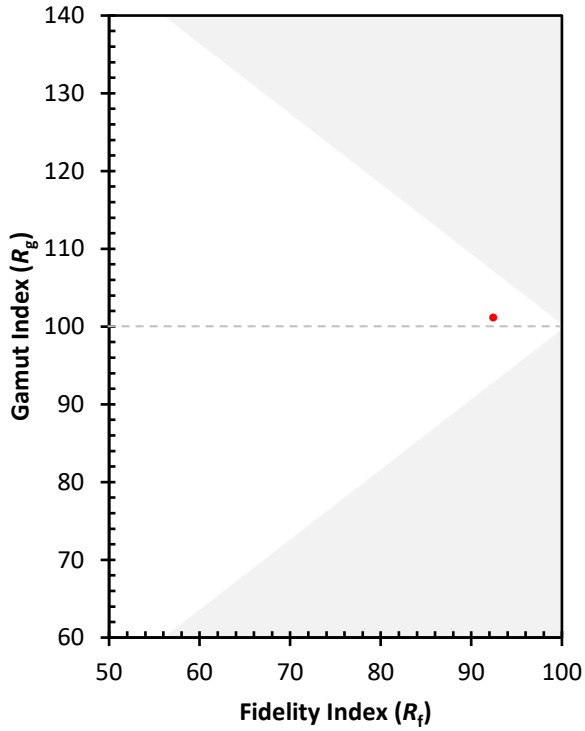
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)