

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: P798557

Luminaire Tested: **LTSS4069FS1EWHR-927**

Issue Date: 04/03/2024



Test Information

Test Method: LM-79-08
Report Number: P798557
Test Lab: ETA Testing Technology(A2)
Issue Date: 04/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LTSS4069FS1EWHR-927
Description: 4 inch 90 CRI COLOR TUNING RECESSED DOWNLIGHT with DRIVER ON BOARD AND SMOOTH SPRAY TRIM
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

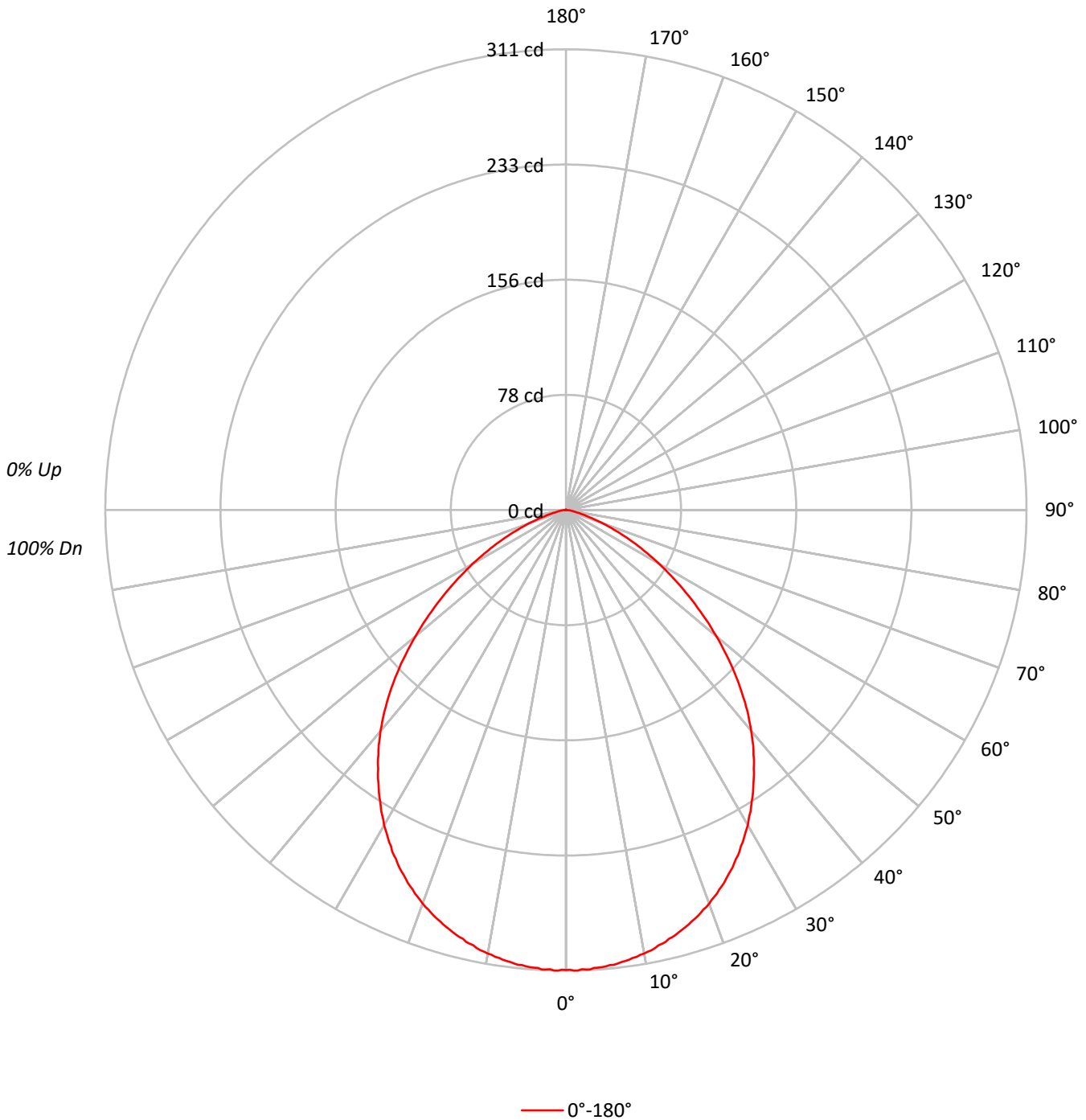
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 654.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.26
Luminous Opening: Circular (Dia: 0.3' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): 120
Input Current (A_{in}): 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





TEST NUMBER: P798557
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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
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	66			66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37			37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	30			30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47282
5°	47264
10°	47007
15°	46507
20°	45828
25°	44727
30°	43185
35°	41121
40°	38703
45°	35512
50°	31437
55°	26894
60°	22141
65°	17151
70°	11977
75°	7060
80°	4735
85°	3320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	4.5
10°-20°	83.2	12.7
20°-30°	122.3	18.7
30°-40°	138.0	21.1
40°-50°	126.6	19.3
50°-60°	90.7	13.9
60°-70°	47.6	7.3
70°-80°	14.1	2.2
80°-90°	2.3	0.4
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°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	234.8	35.9
0°-40°	372.8	57.0
0°-60°	590.2	90.2
0°-90°	654.2	99.9
90°-120°	0.1	0.0
90°-150°	0.3	0.0
90°-180°	0.0	0.0
0°-180°	654.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	310	
5°	309	29
15°	295	83
25°	266	122
35°	221	138
45°	165	127
55°	101	91
65°	48	48
75°	12	14
85°	2	2
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°	310.5
0.5°	310.3
1°	311.0
1.5°	310.9
2°	310.2
2.5°	310.5
3°	310.6
3.5°	309.8
4°	309.8
4.5°	309.6
5°	309.2
5.5°	308.7
6°	308.7
6.5°	308.1
7°	307.4
7.5°	307.1
8°	306.6
8.5°	305.8
9°	305.4
9.5°	304.5
10°	304.0
10.5°	303.3
11°	302.8
11.5°	301.8
12°	300.5
12.5°	300.0
13°	299.2
13.5°	297.8
14°	297.1
14.5°	296.2
15°	295.0
15.5°	293.9
16°	292.9
16.5°	291.8
17°	290.4
17.5°	289.3
18°	288.2
18.5°	286.8
19°	285.2
19.5°	284.2
20°	282.8
20.5°	281.0
21°	279.6
21.5°	278.3
22°	276.3



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CANDELA DISTRIBUTION (continued):

	0°
22.5°	274.9
23°	273.4
23.5°	271.4
24°	269.5
24.5°	267.9
25°	266.2
25.5°	264.1
26°	262.0
26.5°	260.4
27°	258.4
27.5°	255.9
28°	254.1
28.5°	252.0
29°	249.6
29.5°	247.6
30°	245.6
30.5°	242.9
31°	240.6
31.5°	238.6
32°	236.0
32.5°	233.4
33°	231.2
33.5°	228.8
34°	226.1
34.5°	223.6
35°	221.2
35.5°	218.6
36°	215.8
36.5°	213.5
37°	211.0
37.5°	208.1
38°	205.6
38.5°	203.1
39°	200.1
39.5°	197.5
40°	194.7
40.5°	191.8
41°	188.9
41.5°	186.1
42°	183.2
42.5°	180.0
43°	177.3
43.5°	174.0
44°	170.9
44.5°	167.9



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CANDELA DISTRIBUTION (continued):

	0°
45°	164.9
45.5°	161.6
46°	158.4
46.5°	155.2
47°	152.1
47.5°	148.6
48°	145.7
48.5°	142.3
49°	139.0
49.5°	135.9
50°	132.7
50.5°	129.3
51°	126.3
51.5°	123.1
52°	119.7
52.5°	116.8
53°	113.6
53.5°	110.3
54°	107.3
54.5°	104.4
55°	101.3
55.5°	98.3
56°	95.3
56.5°	92.2
57°	89.5
57.5°	86.6
58°	83.7
58.5°	80.9
59°	78.2
59.5°	75.4
60°	72.7
60.5°	70.0
61°	67.3
61.5°	64.7
62°	62.3
62.5°	59.6
63°	57.1
63.5°	54.7
64°	52.3
64.5°	49.9
65°	47.6
65.5°	45.3
66°	43.0
66.5°	40.8
67°	38.7



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	36.5
68°	34.5
68.5°	32.6
69°	30.7
69.5°	28.8
70°	26.9
70.5°	25.0
71°	23.3
71.5°	21.6
72°	20.0
72.5°	18.5
73°	17.0
73.5°	15.6
74°	14.3
74.5°	13.1
75°	12.0
75.5°	10.9
76°	10.0
76.5°	9.1
77°	8.4
77.5°	7.7
78°	7.1
78.5°	6.6
79°	6.2
79.5°	5.8
80°	5.4
80.5°	5.0
81°	4.7
81.5°	4.3
82°	3.9
82.5°	3.6
83°	3.2
83.5°	2.9
84°	2.6
84.5°	2.3
85°	1.9
85.5°	1.6
86°	1.3
86.5°	1.1
87°	0.8
87.5°	0.5
88°	0.2
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°	0.0
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°	0.0
118°	0.0
118.5°	0.0
119°	0.0
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°	0.1
154°	0.1
154.5°	0.1
155°	0.1
155.5°	0.1
156°	0.1
156.5°	0.1
157°	0.1



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CANDELA DISTRIBUTION (continued):

	0°
157.5°	0.1
158°	0.1
158.5°	0.1
159°	0.1
159.5°	0.1
160°	0.1
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: P798557
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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: SP1-2401-294-1

Test Date: 03/08/2024

Luminaire Tested: LT4069FS1EWHR-2700K

Data in this report applies to families of products LT4069FS1EWHR-2700K.

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.

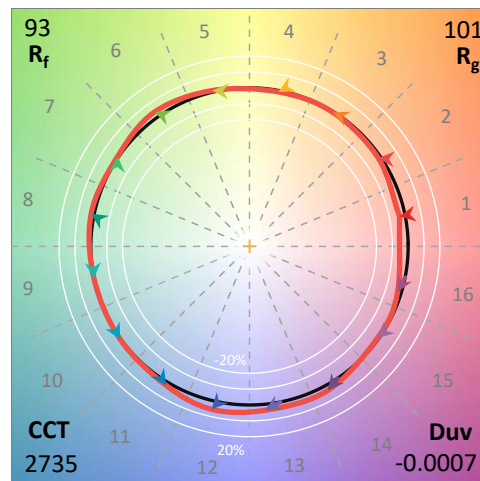
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2401-294-1
 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-2700K**
 Description: 4 INCH HALO LT 5CCT DOB .

Spectral Parameters

CCT (K): 2735
 CIE u': 0.2611
 CIE v': 0.5257
 Duv: -0.0007
 CIE x: 0.4559
 CIE y: 0.4080
 CIE z: 0.1362
 Peak Wavelength (nm): 632
 Dominant Wavelength (nm): 584
 Purity: 59.5
 Rf: 92.9
 Rg: 101.1

CRI (Ra):	96.4		
R1:	99.6	R9:	74.3
R2:	98.9	R10:	94.3
R3:	95.5	R11:	96.0
R4:	98.1	R12:	88.0
R5:	98.9	R13:	99.5
R6:	96.2	R14:	95.6
R7:	94.2		
R8:	89.4		



Test Conditions

Stabilization Time: 23M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.8/43%
 Sphere Temperature (°C): 25.0

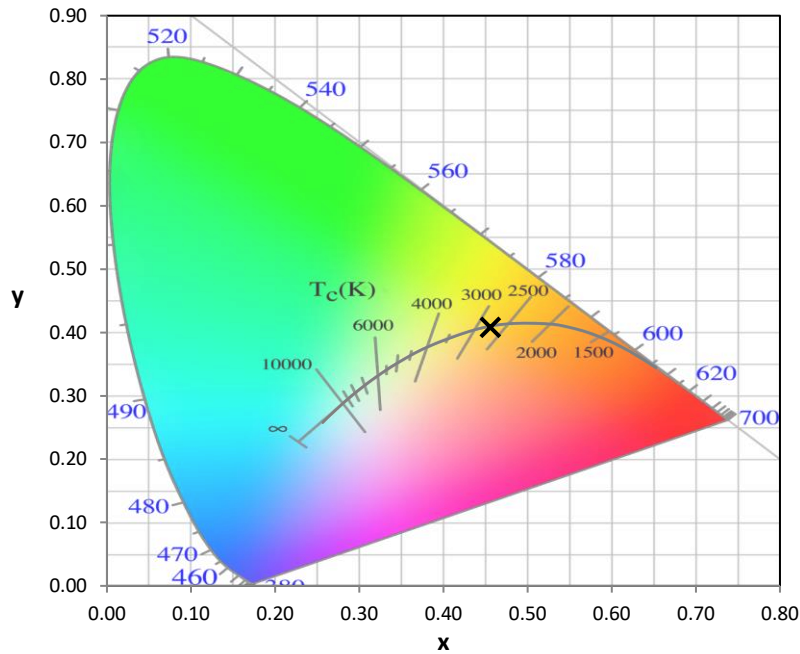
REPORT NUMBER: SP1-2401-294-1

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

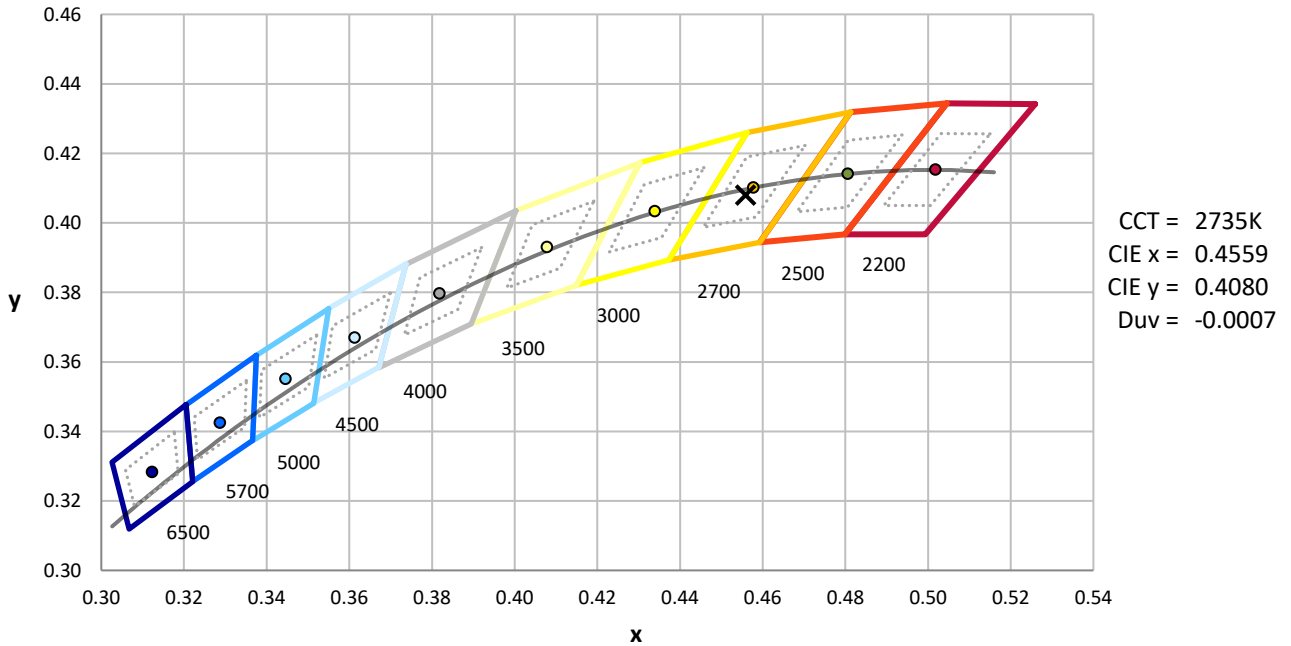
Sample Number	Condition	Description
2401-294-LM1	Good	LT4069FS1EWHR

REPORT NUMBER: SP1-2401-294-1

CIE 1931 Chromaticity Diagram



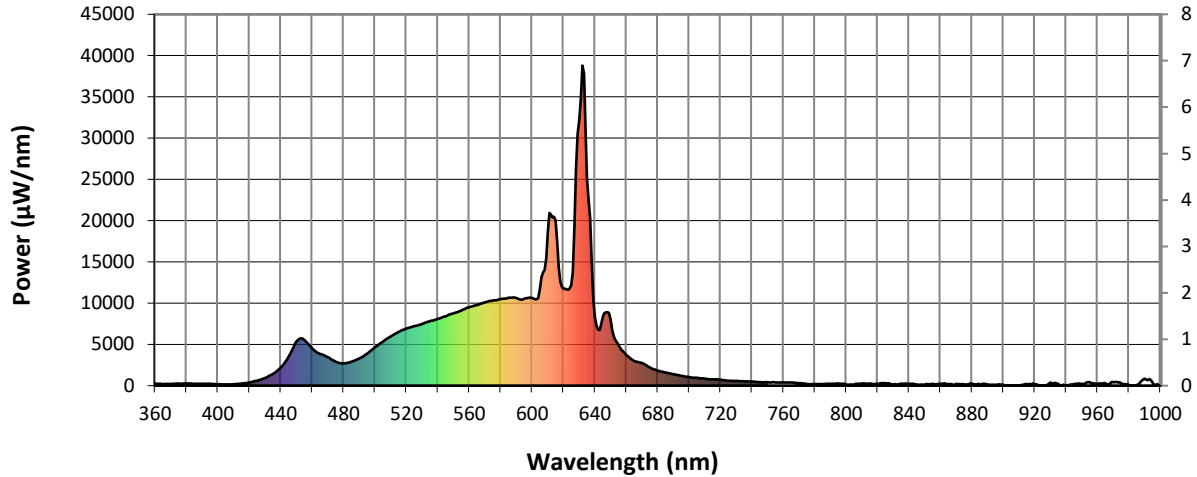
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

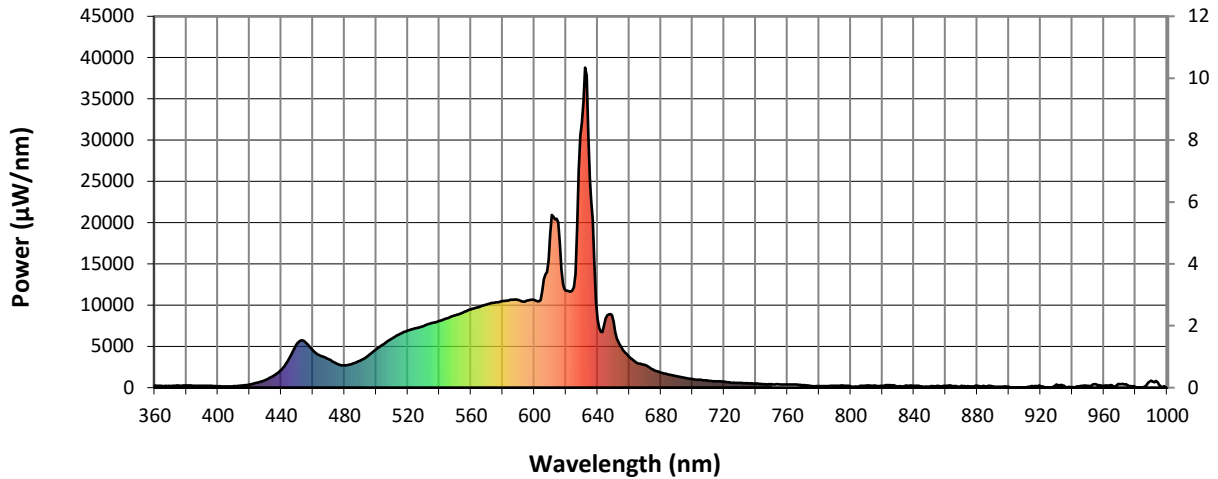


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λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)	λ (nm)	Power ($\mu\text{W}/\text{nm}$)	Lumens (ϕ/nm)
360	265	NR	490	3289	NR	620	11748	NR	750	404	NR	880	238	NR
365	193	NR	495	3874	NR	625	12180	NR	755	398	NR	885	146	NR
370	202	NR	500	4628	NR	630	32128	NR	760	361	NR	890	130	NR
375	249	NR	505	5311	NR	635	25238	NR	765	390	NR	895	126	NR
380	249	NR	510	5946	NR	640	8284	NR	770	297	NR	900	107	NR
385	209	NR	515	6497	NR	645	8376	NR	775	203	NR	905	0	NR
390	225	NR	520	6930	NR	650	8008	NR	780	198	NR	910	1	NR
395	215	NR	525	7209	NR	655	4906	NR	785	203	NR	915	199	NR
400	165	NR	530	7491	NR	660	3720	NR	790	235	NR	920	187	NR
405	146	NR	535	7815	NR	665	2972	NR	795	245	NR	925	0	NR
410	172	NR	540	8089	NR	670	2726	NR	800	130	NR	930	372	NR
415	245	NR	545	8421	NR	675	2200	NR	805	161	NR	935	215	NR
420	375	NR	550	8755	NR	680	1827	NR	810	276	NR	940	54	NR
425	617	NR	555	9109	NR	685	1585	NR	815	250	NR	945	201	NR
430	925	NR	560	9504	NR	690	1390	NR	820	234	NR	950	218	NR
435	1428	NR	565	9771	NR	695	1194	NR	825	288	NR	955	409	NR
440	2173	NR	570	10087	NR	700	1025	NR	830	141	NR	960	239	NR
445	3523	NR	575	10296	NR	705	944	NR	835	257	NR	965	284	NR
450	5325	NR	580	10484	NR	710	850	NR	840	230	NR	970	406	NR
455	5540	NR	585	10649	NR	715	760	NR	845	145	NR	975	288	NR
460	4514	NR	590	10599	NR	720	715	NR	850	160	NR	980	55	NR
465	3847	NR	595	10540	NR	725	592	NR	855	243	NR	985	59	NR
470	3432	NR	600	10616	NR	730	578	NR	860	227	NR	990	862	NR
475	2910	NR	605	11713	NR	735	525	NR	865	186	NR	995	324	NR
480	2710	NR	610	18679	NR	740	483	NR	870	208	NR	1000	0	NR
485	2895	NR	615	20023	NR	745	427	NR	875	155	NR			

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Scotopic Flux vs. Wavelength



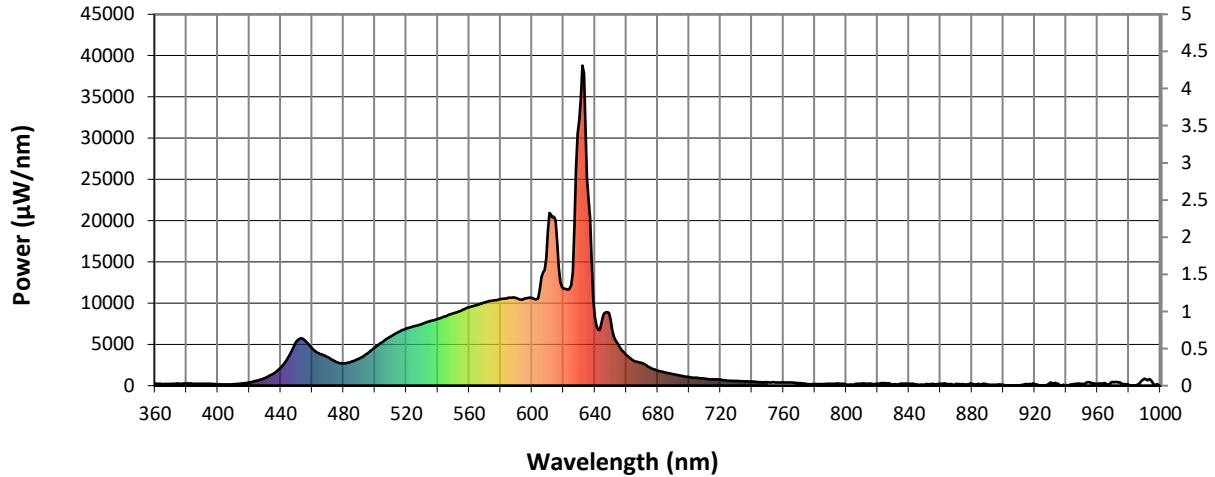
Scotopic Lumens: 916.2

S/P: 1.32

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	265	NR	490	3289	NR	620	11748	NR	750	404	NR	880	238	NR
365	193	NR	495	3874	NR	625	12180	NR	755	398	NR	885	146	NR
370	202	NR	500	4628	NR	630	32128	NR	760	361	NR	890	130	NR
375	249	NR	505	5311	NR	635	25238	NR	765	390	NR	895	126	NR
380	249	NR	510	5946	NR	640	8284	NR	770	297	NR	900	107	NR
385	209	NR	515	6497	NR	645	8376	NR	775	203	NR	905	0	NR
390	225	NR	520	6930	NR	650	8008	NR	780	198	NR	910	1	NR
395	215	NR	525	7209	NR	655	4906	NR	785	203	NR	915	199	NR
400	165	NR	530	7491	NR	660	3720	NR	790	235	NR	920	187	NR
405	146	NR	535	7815	NR	665	2972	NR	795	245	NR	925	0	NR
410	172	NR	540	8089	NR	670	2726	NR	800	130	NR	930	372	NR
415	245	NR	545	8421	NR	675	2200	NR	805	161	NR	935	215	NR
420	375	NR	550	8755	NR	680	1827	NR	810	276	NR	940	54	NR
425	617	NR	555	9109	NR	685	1585	NR	815	250	NR	945	201	NR
430	925	NR	560	9504	NR	690	1390	NR	820	234	NR	950	218	NR
435	1428	NR	565	9771	NR	695	1194	NR	825	288	NR	955	409	NR
440	2173	NR	570	10087	NR	700	1025	NR	830	141	NR	960	239	NR
445	3523	NR	575	10296	NR	705	944	NR	835	257	NR	965	284	NR
450	5325	NR	580	10484	NR	710	850	NR	840	230	NR	970	406	NR
455	5540	NR	585	10649	NR	715	760	NR	845	145	NR	975	288	NR
460	4514	NR	590	10599	NR	720	715	NR	850	160	NR	980	55	NR
465	3847	NR	595	10540	NR	725	592	NR	855	243	NR	985	59	NR
470	3432	NR	600	10616	NR	730	578	NR	860	227	NR	990	862	NR
475	2910	NR	605	11713	NR	735	525	NR	865	186	NR	995	324	NR
480	2710	NR	610	18679	NR	740	483	NR	870	208	NR	1000	0	NR
485	2895	NR	615	20023	NR	745	427	NR	875	155	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 344.8

M/P: 0.5

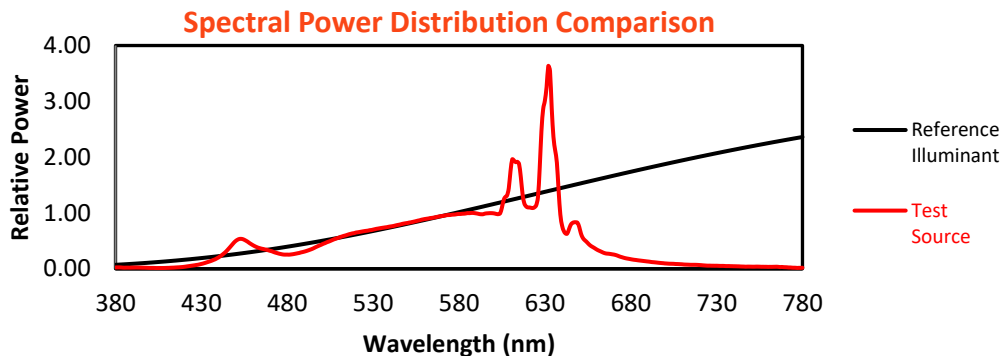
λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)	λ (nm)	Power (µW/nm)	Lumens (φ/nm)
360	265	NR	490	3289	NR	620	11748	NR	750	404	NR	880	238	NR
365	193	NR	495	3874	NR	625	12180	NR	755	398	NR	885	146	NR
370	202	NR	500	4628	NR	630	32128	NR	760	361	NR	890	130	NR
375	249	NR	505	5311	NR	635	25238	NR	765	390	NR	895	126	NR
380	249	NR	510	5946	NR	640	8284	NR	770	297	NR	900	107	NR
385	209	NR	515	6497	NR	645	8376	NR	775	203	NR	905	0	NR
390	225	NR	520	6930	NR	650	8008	NR	780	198	NR	910	1	NR
395	215	NR	525	7209	NR	655	4906	NR	785	203	NR	915	199	NR
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405	146	NR	535	7815	NR	665	2972	NR	795	245	NR	925	0	NR
410	172	NR	540	8089	NR	670	2726	NR	800	130	NR	930	372	NR
415	245	NR	545	8421	NR	675	2200	NR	805	161	NR	935	215	NR
420	375	NR	550	8755	NR	680	1827	NR	810	276	NR	940	54	NR
425	617	NR	555	9109	NR	685	1585	NR	815	250	NR	945	201	NR
430	925	NR	560	9504	NR	690	1390	NR	820	234	NR	950	218	NR
435	1428	NR	565	9771	NR	695	1194	NR	825	288	NR	955	409	NR
440	2173	NR	570	10087	NR	700	1025	NR	830	141	NR	960	239	NR
445	3523	NR	575	10296	NR	705	944	NR	835	257	NR	965	284	NR
450	5325	NR	580	10484	NR	710	850	NR	840	230	NR	970	406	NR
455	5540	NR	585	10649	NR	715	760	NR	845	145	NR	975	288	NR
460	4514	NR	590	10599	NR	720	715	NR	850	160	NR	980	55	NR
465	3847	NR	595	10540	NR	725	592	NR	855	243	NR	985	59	NR
470	3432	NR	600	10616	NR	730	578	NR	860	227	NR	990	862	NR
475	2910	NR	605	11713	NR	735	525	NR	865	186	NR	995	324	NR
480	2710	NR	610	18679	NR	740	483	NR	870	208	NR	1000	0	NR
485	2895	NR	615	20023	NR	745	427	NR	875	155	NR			

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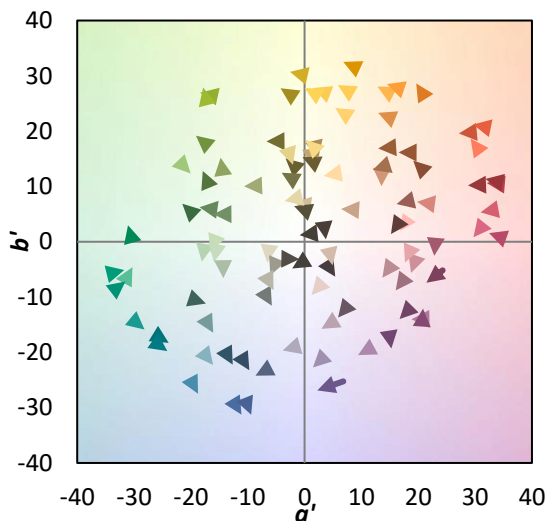
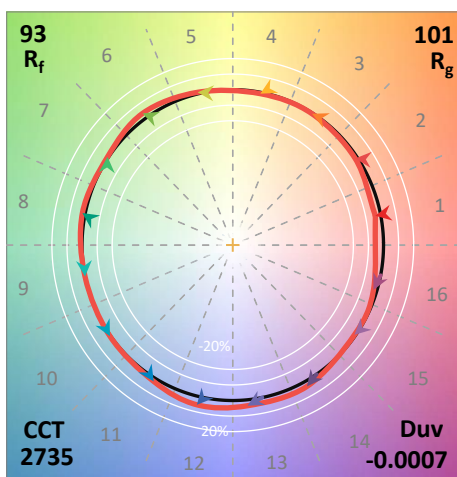
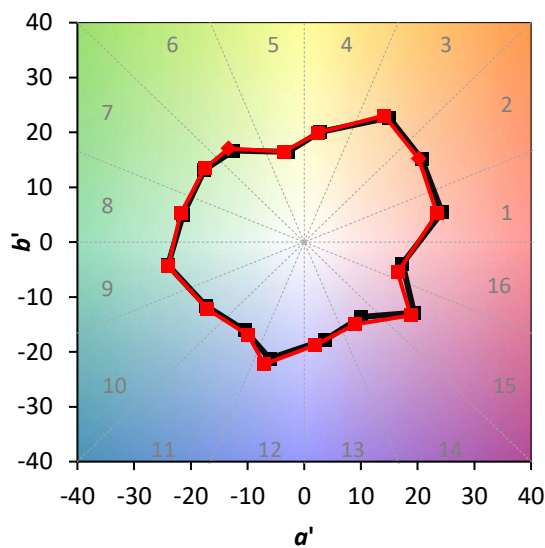
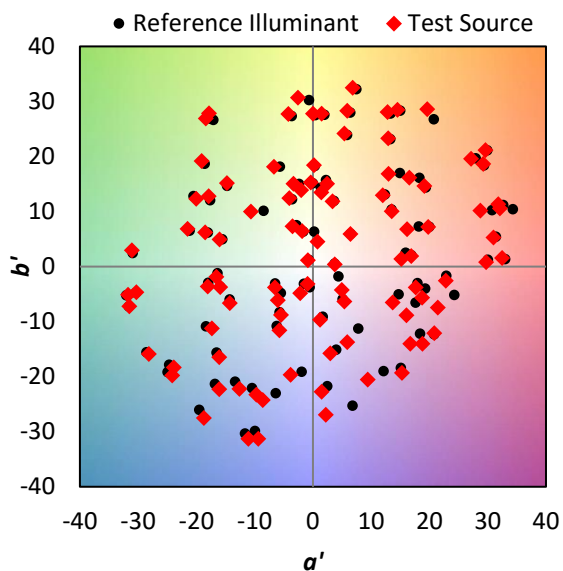
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Summary

$R_f = 92.9$
 $R_g = 101.1$
 CIE $R_a = 96.4$
 $R_9 = 74.3$



Color Vector Graphics

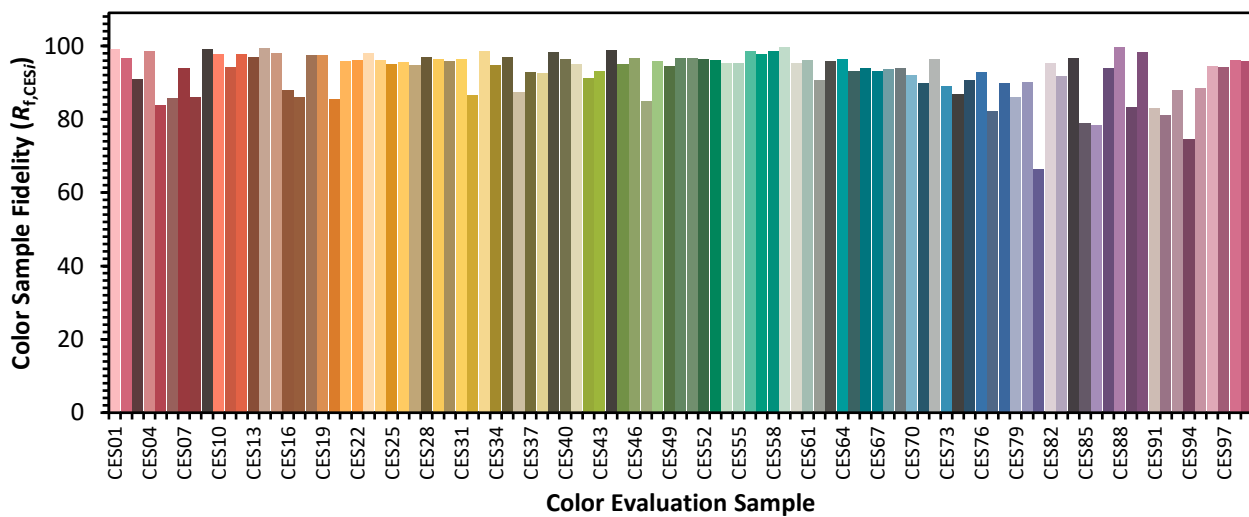


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Individual Sample Fidelity Index ($R_{f,i}$)

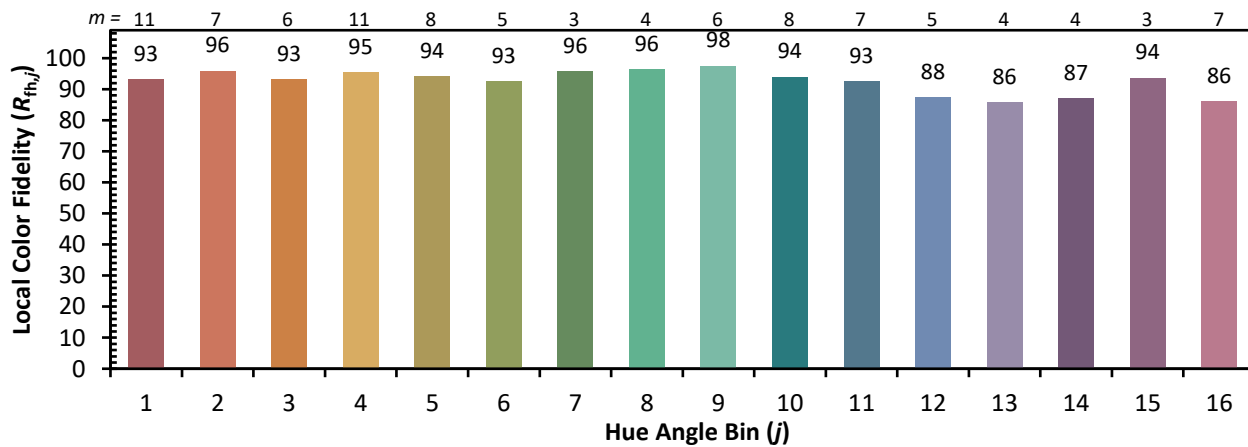
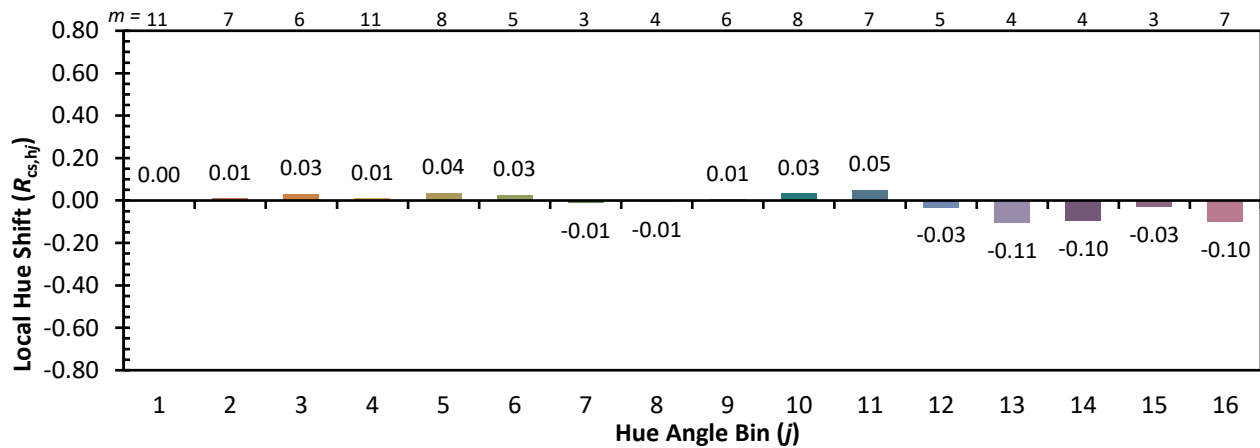
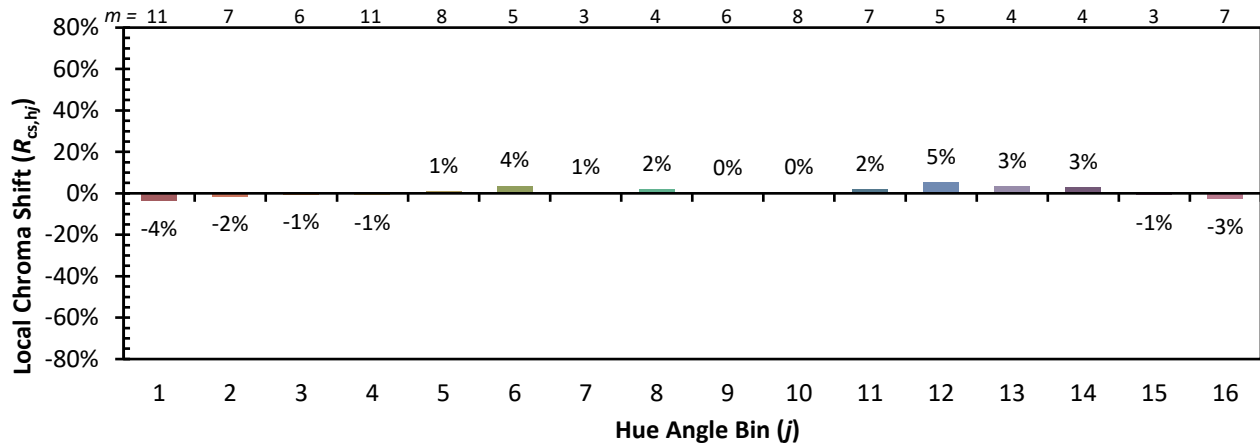
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CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 90
CES04 = 70	CES29 = 96	CES54 = 95	CES79 = 86
CES05 = 51	CES30 = 96	CES55 = 95	CES80 = 90
CES06 = 51	CES31 = 96	CES56 = 99	CES81 = 66
CES07 = 45	CES32 = 87	CES57 = 98	CES82 = 95
CES08 = 43	CES33 = 98	CES58 = 99	CES83 = 92
CES09 = 29	CES34 = 95	CES59 = 100	CES84 = 97
CES10 = 77	CES35 = 97	CES60 = 95	CES85 = 79
CES11 = 59	CES36 = 87	CES61 = 96	CES86 = 78
CES12 = 66	CES37 = 93	CES62 = 91	CES87 = 94
CES13 = 45	CES38 = 92	CES63 = 96	CES88 = 100
CES14 = 74	CES39 = 98	CES64 = 96	CES89 = 83
CES15 = 72	CES40 = 96	CES65 = 93	CES90 = 98
CES16 = 48	CES41 = 95	CES66 = 94	CES91 = 83
CES17 = 50	CES42 = 91	CES67 = 93	CES92 = 81
CES18 = 57	CES43 = 93	CES68 = 94	CES93 = 88
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 75
CES20 = 68	CES45 = 95	CES70 = 92	CES95 = 88
CES21 = 87	CES46 = 97	CES71 = 90	CES96 = 94
CES22 = 79	CES47 = 85	CES72 = 96	CES97 = 94
CES23 = 92	CES48 = 96	CES73 = 89	CES98 = 96
CES24 = 91	CES49 = 95	CES74 = 87	CES99 = 96
CES25 = 72	CES50 = 97	CES75 = 91	



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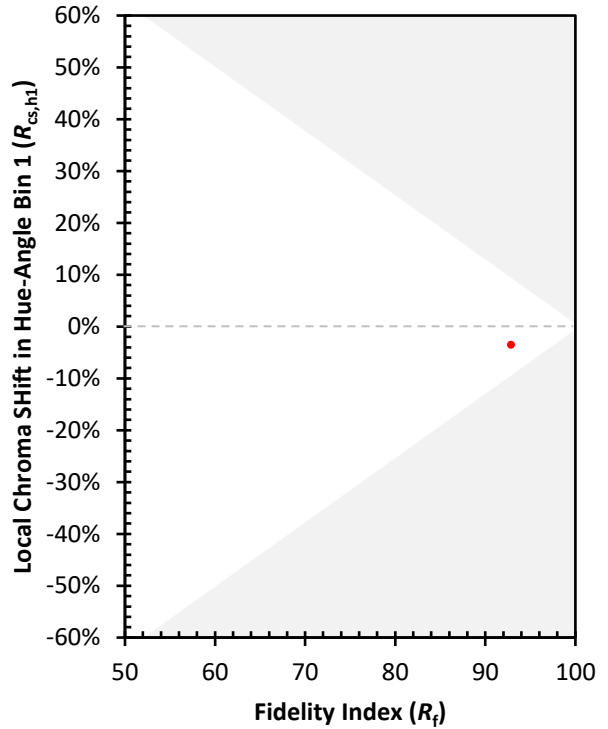
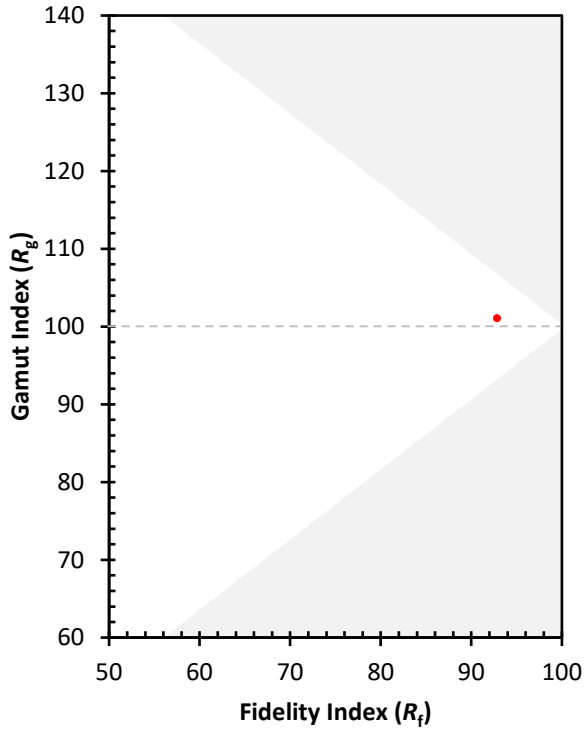
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)