

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1251013

Luminaire Tested: P3A02R709030DE010 E3LSWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1251013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R709030DE010 E3LSWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3LSWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

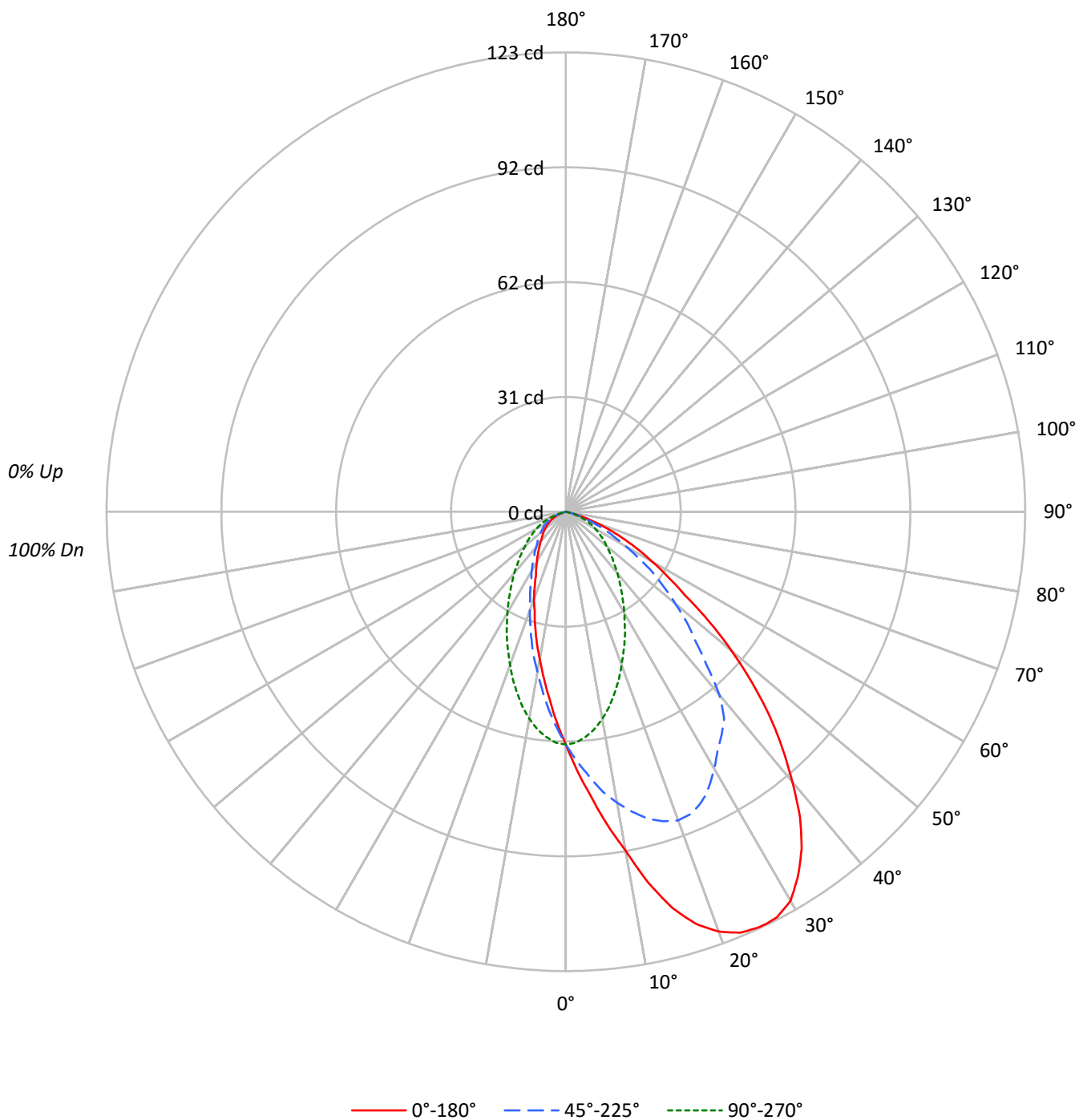
Lumens per Lamp: N/A
Luminaire Lumens: 124.0 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
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: 24 FT

TEST NUMBER: P1251013

CATALOG NUMBER: P3A02R709030DE010 E3LSWW1H

Luminous Intensity Polar Plot



TEST NUMBER: P1251013

CATALOG NUMBER: P3A02R709030DE010 E3LSWW1H

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13661	13661	13661	13661	13661
5°	16795	15628	13317	11688	11072
10°	20507	17613	12536	9708	8929
15°	24904	19319	11419	8059	7196
20°	27909	20512	10174	6557	5834
25°	29687	20759	9025	5444	4597
30°	30460	20130	7925	4634	3925
35°	29473	19488	6960	3962	3400
40°	26993	18320	6154	3521	3034
45°	23878	15257	5458	3287	2729
50°	19786	13066	4810	3002	2524
55°	14910	10896	4435	2829	2294
60°	11710	8157	3991	2631	2017
65°	8769	6019	3476	2179	1660
70°	5642	3847	2500	1603	898
75°	2372	2118	1186	593	339
80°	505	505	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23878 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	4.8
10°-20°	17.0	13.7
20°-30°	24.9	20.0
30°-40°	27.1	21.8
40°-50°	23.4	18.9
50°-60°	15.7	12.7
60°-70°	8.1	6.5
70°-80°	1.9	1.6
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	47.8	38.5
0°-40°	74.8	60.3
0°-60°	114.0	91.9
0°-90°	124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	124.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	76	71	60	53	50	8
15°	110	85	50	36	32	31
25°	123	86	37	22	19	56
35°	110	73	26	15	13	68
45°	77	49	18	11	9	59
55°	39	28	12	7	6	36
65°	17	12	7	4	3	17
75°	3	2	1	1	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	69.3	68.9	68.9	68.2	67.5	66.8	65.8	64.7	63.7	62.6	61.9
5°	76.3	76.7	76.3	74.9	73.2	71.0	68.9	66.5	64.0	61.9	60.5
7.5°	84.4	84.4	83.4	81.6	79.1	75.6	72.1	67.9	64.0	60.5	58.7
10°	92.1	92.1	90.4	87.6	83.7	79.1	74.2	68.6	63.3	58.4	56.3
12.5°	101.6	101.3	99.2	94.6	89.0	82.3	75.6	68.6	62.3	56.3	53.5
15°	109.7	109.4	106.6	100.9	93.6	85.1	76.0	67.9	60.1	53.5	50.3
17.5°	115.7	115.0	111.8	105.9	97.4	86.9	76.3	66.5	57.7	50.3	47.1
20°	119.6	119.2	115.7	108.7	99.5	87.9	76.0	64.7	55.2	47.1	43.6
22.5°	122.0	121.3	117.8	110.1	99.5	87.6	74.6	62.3	52.1	44.0	40.4
25°	122.7	122.4	118.2	109.7	98.5	85.8	72.4	59.8	48.9	40.8	37.3
26°	122.7	122.4	118.2	109.4	97.8	84.8	71.4	58.7	47.8	39.4	36.2
27.5°	122.4	122.0	117.5	108.3	96.4	83.0	69.3	56.6	45.7	37.6	34.1
30°	120.3	119.6	115.0	105.9	93.2	79.5	65.8	53.5	42.6	34.5	31.3
32.5°	115.7	115.0	110.1	101.6	89.7	75.6	61.9	49.9	39.4	31.3	28.5
35°	110.1	109.4	104.5	96.4	84.8	72.8	57.7	46.1	35.9	28.8	26.0
37.5°	103.0	102.0	97.8	89.3	78.8	69.6	54.2	42.2	32.7	26.0	23.6
40°	94.3	93.9	90.0	82.3	71.7	64.0	52.1	42.2	29.9	23.6	21.5
42.5°	85.8	85.1	81.6	74.9	65.4	55.9	45.7	40.4	27.8	21.1	19.3
45°	77.0	76.3	73.2	67.5	58.7	49.2	49.2	34.8	23.9	19.3	17.6
47.5°	67.5	66.8	64.4	60.1	52.4	44.0	35.9	28.5	21.8	17.2	15.8
50°	58.0	58.4	56.3	52.1	46.1	38.3	30.9	23.9	18.6	15.5	14.1
52.5°	48.5	48.2	46.8	44.0	39.7	33.1	26.4	20.4	16.2	13.7	13.0
55°	39.0	39.4	38.7	36.9	33.4	28.5	22.2	17.6	14.4	12.3	11.6
57.5°	32.4	32.7	31.3	30.2	27.4	23.2	18.3	14.8	12.3	10.9	10.2
60°	26.7	27.1	26.0	24.6	22.5	18.6	14.8	12.3	10.9	9.8	9.1
62.5°	21.8	21.5	20.8	19.3	17.6	14.8	12.0	10.2	9.1	8.4	8.1
65°	16.9	16.9	16.2	15.1	13.7	11.6	9.5	8.4	7.7	7.0	6.7
67.5°	12.7	12.7	12.0	11.3	9.8	8.4	7.4	6.7	6.3	5.6	5.3
70°	8.8	8.8	8.4	8.1	7.0	6.0	5.6	4.9	4.6	4.2	3.9
72.5°	5.6	5.6	5.6	4.9	4.6	3.9	3.9	3.5	3.2	2.8	2.8
75°	2.8	3.2	2.8	2.8	2.5	2.5	2.1	2.1	1.8	1.8	1.4
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.7	0.7	0.7	0.7	0.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
2.5°	61.2	60.1	59.4	58.4	57.7	57.0	56.6	56.3	56.3	56.3
5°	59.4	57.7	55.9	54.2	53.1	52.1	51.0	50.6	50.3	50.3
7.5°	57.3	54.5	52.1	49.9	48.2	47.1	46.1	45.4	45.0	45.0
10°	54.5	51.0	48.2	45.4	43.6	42.2	41.5	40.4	40.4	40.1
12.5°	51.3	47.1	44.0	41.5	39.7	38.0	36.9	36.2	35.9	35.9
15°	47.8	43.6	40.1	37.3	35.5	33.8	32.7	32.0	31.7	31.7
17.5°	44.3	39.7	36.2	33.4	31.7	29.9	28.8	28.1	28.1	27.8
20°	40.8	36.2	32.7	29.9	28.1	26.7	25.7	25.0	24.6	25.0
22.5°	37.6	33.1	29.5	27.1	25.0	23.6	22.5	22.2	21.8	21.8
25°	34.1	29.9	26.7	24.3	22.5	21.1	20.0	19.7	19.3	19.0
26°	33.1	28.8	25.7	23.2	21.5	20.0	19.3	18.6	18.3	18.3
27.5°	31.7	27.1	24.3	21.8	20.0	19.0	17.9	17.6	17.2	17.2
30°	28.5	24.6	21.8	19.7	18.3	16.9	16.2	15.8	15.5	15.5
32.5°	26.0	22.2	19.7	17.9	16.5	15.5	14.8	14.1	14.1	14.1
35°	23.6	20.0	17.9	16.2	14.8	13.7	13.4	13.0	12.7	12.7
37.5°	21.5	18.3	16.2	14.8	13.7	12.7	12.0	11.6	11.6	11.6
40°	19.3	16.9	14.8	13.4	12.3	11.6	10.9	10.6	10.6	10.6
42.5°	17.6	15.1	13.7	12.3	11.3	10.6	10.2	9.8	9.5	9.5
45°	16.2	14.1	12.3	11.3	10.6	9.8	9.1	8.8	8.8	8.8
47.5°	14.4	13.0	11.3	10.2	9.5	8.8	8.4	8.1	8.1	8.1
50°	13.4	12.0	10.6	9.5	8.8	8.1	7.7	7.4	7.4	7.4
52.5°	12.0	10.9	9.8	8.8	8.1	7.4	7.0	6.7	6.7	6.7
55°	10.9	9.8	8.8	8.1	7.4	6.7	6.3	6.0	6.0	6.0
57.5°	9.8	8.8	8.1	7.4	6.7	6.3	5.6	5.6	5.3	5.3
60°	8.8	7.7	7.0	6.7	6.0	5.6	4.9	4.6	4.6	4.6
62.5°	7.4	7.0	6.3	5.6	4.9	4.6	4.2	3.9	3.9	3.9
65°	6.3	6.0	5.3	4.6	4.2	3.9	3.5	3.2	3.2	3.2
67.5°	5.3	4.6	4.2	3.9	3.5	3.2	2.8	2.5	2.1	2.5
70°	3.9	3.5	3.2	2.8	2.5	2.1	1.8	1.8	1.4	1.4
72.5°	2.5	2.1	2.1	1.8	1.4	1.4	1.1	1.1	0.7	0.7
75°	1.4	1.4	1.1	1.1	0.7	0.7	0.4	0.4	0.4	0.4
77.5°	0.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

IRiS

Report Number: SP1-2504-409-28

Test Date: 05/16/2025

Luminaire Tested: LD3A09R159030D010 E3D1H

Data in this report applies to families of products including LD3A

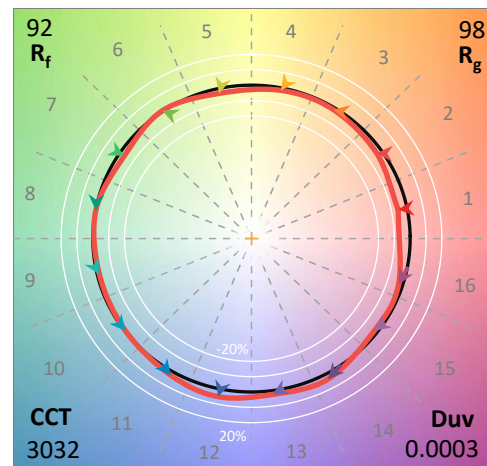
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-409-28
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 01/06/2026
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: IRiS
 Catalog Number: **LD3A09R159030D010 E3D1H**
 Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K): 3032
 CIE u' : 0.2493
 CIE v' : 0.5211
 Duv: 0.0003
 CIE x: 0.4351
 CIE y: 0.4042
 CIE z: 0.1608
 Peak Wavelength (nm): 615
 Dominant Wavelength (nm): 582
 Purity: 51.90029
 R_f: 91.6
 R_g: 98.2

CRI (Ra): 92.8
 R1: 93.5
 R2: 97.3
 R3: 98.7
 R4: 93.9
 R5: 93.6
 R6: 96.7
 R7: 90.3
 R8: 78.4
 R9: 51.3
 R10: 93.2
 R11: 96.4
 R12: 82.1
 R13: 94.8
 R14: 99.6
 R15: 87.6



Test Conditions

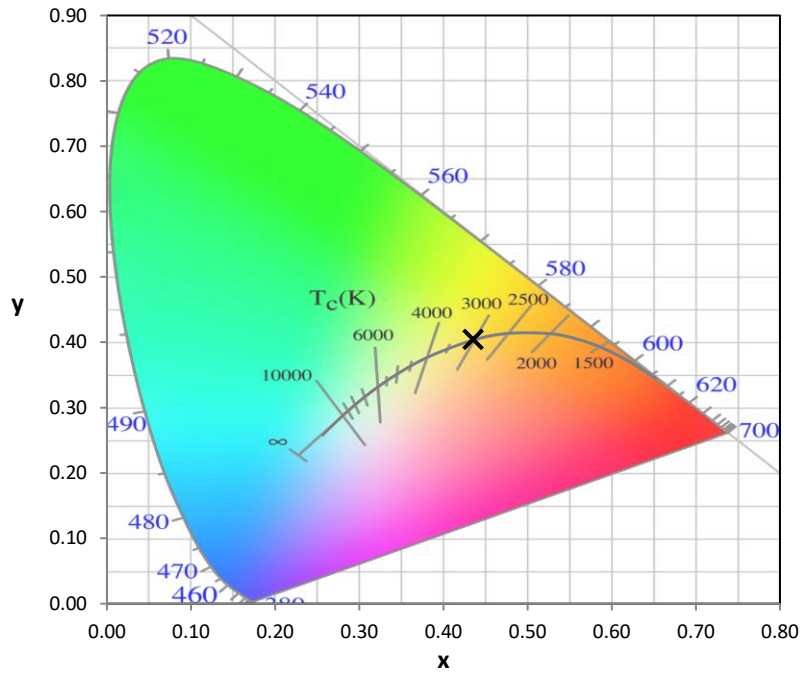
Stabilization Time: 40M
 Operation Time: 1H 40M
 Sphere Temperature (°C): 25.1

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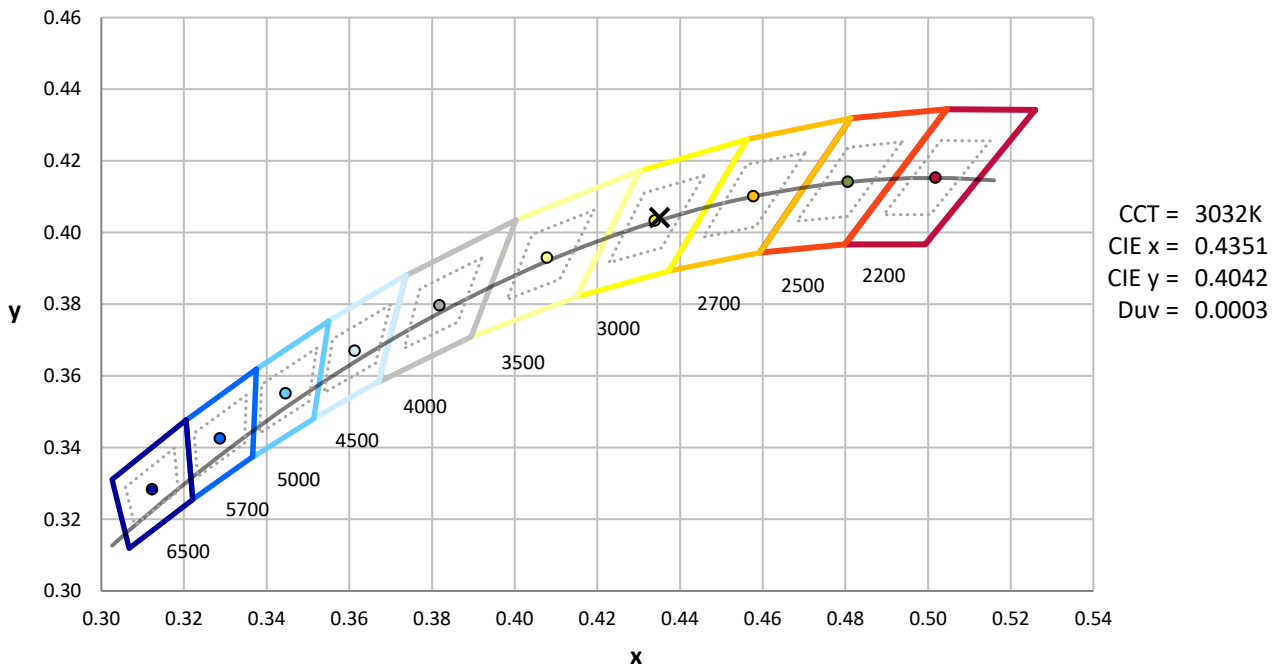
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



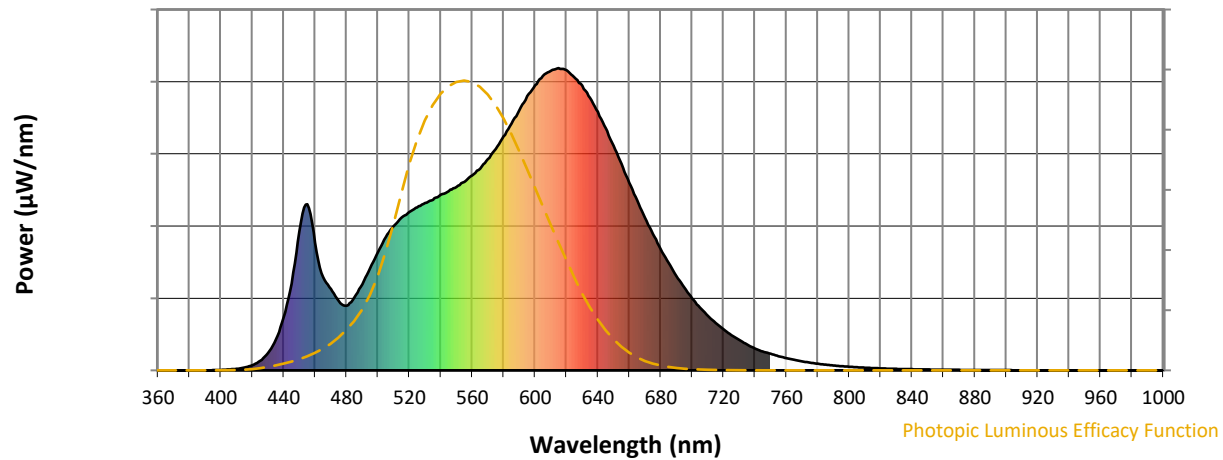
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

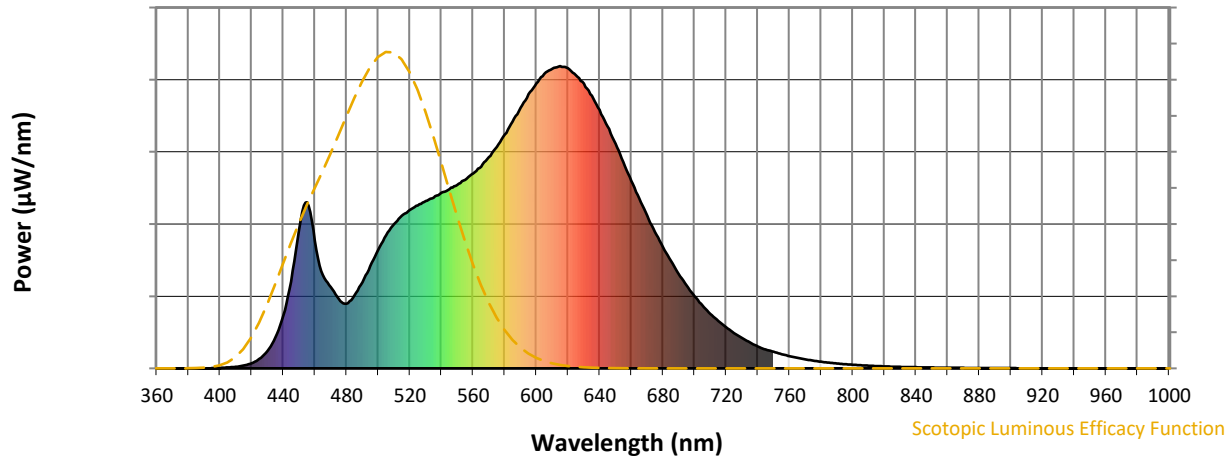


Photopic Lumens: NR

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	285	NR	620	993	NR	750	55	NR	880	1	NR
365	0	NR	495	338	NR	625	970	NR	755	47	NR	885	1	NR
370	0	NR	500	392	NR	630	942	NR	760	41	NR	890	1	NR
375	0	NR	505	440	NR	635	902	NR	765	35	NR	895	1	NR
380	0	NR	510	478	NR	640	855	NR	770	30	NR	900	1	NR
385	0	NR	515	505	NR	645	800	NR	775	26	NR	905	1	NR
390	0	NR	520	524	NR	650	743	NR	780	22	NR	910	0	NR
395	1	NR	525	539	NR	655	682	NR	785	19	NR	915	0	NR
400	2	NR	530	554	NR	660	621	NR	790	16	NR	920	0	NR
405	3	NR	535	565	NR	665	563	NR	795	14	NR	925	1	NR
410	5	NR	540	581	NR	670	505	NR	800	12	NR	930	0	NR
415	10	NR	545	593	NR	675	451	NR	805	10	NR	935	0	NR
420	17	NR	550	606	NR	680	401	NR	810	9	NR	940	0	NR
425	32	NR	555	623	NR	685	356	NR	815	8	NR	945	0	NR
430	57	NR	560	645	NR	690	313	NR	820	7	NR	950	0	NR
435	103	NR	565	667	NR	695	274	NR	825	6	NR	955	0	NR
440	175	NR	570	699	NR	700	238	NR	830	5	NR	960	0	NR
445	287	NR	575	732	NR	705	208	NR	835	4	NR	965	0	NR
450	460	NR	580	774	NR	710	180	NR	840	4	NR	970	0	NR
455	550	NR	585	816	NR	715	157	NR	845	3	NR	975	0	NR
460	423	NR	590	862	NR	720	136	NR	850	3	NR	980	0	NR
465	309	NR	595	907	NR	725	117	NR	855	2	NR	985	0	NR
470	269	NR	600	943	NR	730	100	NR	860	2	NR	990	0	NR
475	229	NR	605	974	NR	735	86	NR	865	2	NR	995	0	NR
480	214	NR	610	991	NR	740	72	NR	870	2	NR	1000	0	NR
485	241	NR	615	1000	NR	745	62	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



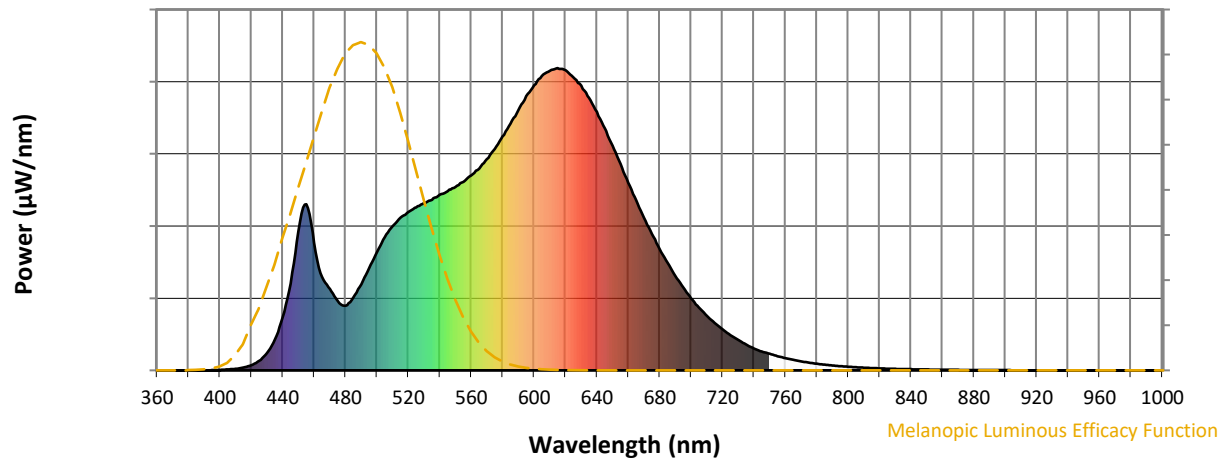
Scotopic Lumens: NR

S/P: 1.44

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	285	NR	620	993	NR	750	55	NR	880	1	NR
365	0	NR	495	338	NR	625	970	NR	755	47	NR	885	1	NR
370	0	NR	500	392	NR	630	942	NR	760	41	NR	890	1	NR
375	0	NR	505	440	NR	635	902	NR	765	35	NR	895	1	NR
380	0	NR	510	478	NR	640	855	NR	770	30	NR	900	1	NR
385	0	NR	515	505	NR	645	800	NR	775	26	NR	905	1	NR
390	0	NR	520	524	NR	650	743	NR	780	22	NR	910	0	NR
395	1	NR	525	539	NR	655	682	NR	785	19	NR	915	0	NR
400	2	NR	530	554	NR	660	621	NR	790	16	NR	920	0	NR
405	3	NR	535	565	NR	665	563	NR	795	14	NR	925	1	NR
410	5	NR	540	581	NR	670	505	NR	800	12	NR	930	0	NR
415	10	NR	545	593	NR	675	451	NR	805	10	NR	935	0	NR
420	17	NR	550	606	NR	680	401	NR	810	9	NR	940	0	NR
425	32	NR	555	623	NR	685	356	NR	815	8	NR	945	0	NR
430	57	NR	560	645	NR	690	313	NR	820	7	NR	950	0	NR
435	103	NR	565	667	NR	695	274	NR	825	6	NR	955	0	NR
440	175	NR	570	699	NR	700	238	NR	830	5	NR	960	0	NR
445	287	NR	575	732	NR	705	208	NR	835	4	NR	965	0	NR
450	460	NR	580	774	NR	710	180	NR	840	4	NR	970	0	NR
455	550	NR	585	816	NR	715	157	NR	845	3	NR	975	0	NR
460	423	NR	590	862	NR	720	136	NR	850	3	NR	980	0	NR
465	309	NR	595	907	NR	725	117	NR	855	2	NR	985	0	NR
470	269	NR	600	943	NR	730	100	NR	860	2	NR	990	0	NR
475	229	NR	605	974	NR	735	86	NR	865	2	NR	995	0	NR
480	214	NR	610	991	NR	740	72	NR	870	2	NR	1000	0	NR
485	241	NR	615	1000	NR	745	62	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.84

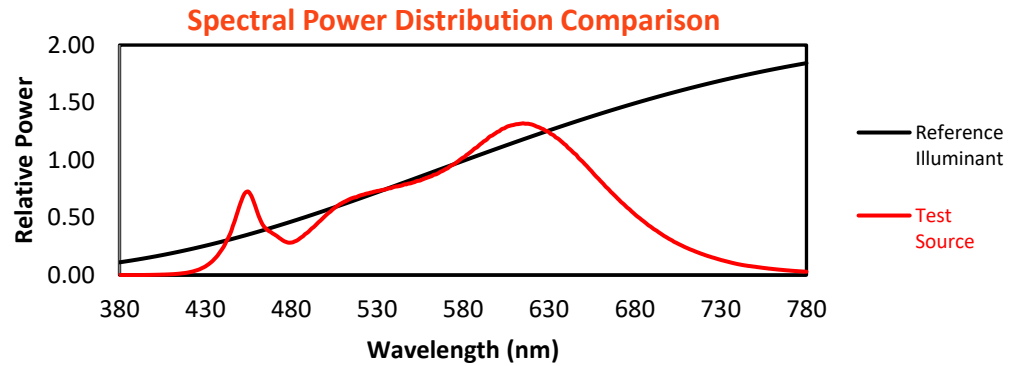
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	285	NR	620	993	NR	750	55	NR	880	1	NR
365	0	NR	495	338	NR	625	970	NR	755	47	NR	885	1	NR
370	0	NR	500	392	NR	630	942	NR	760	41	NR	890	1	NR
375	0	NR	505	440	NR	635	902	NR	765	35	NR	895	1	NR
380	0	NR	510	478	NR	640	855	NR	770	30	NR	900	1	NR
385	0	NR	515	505	NR	645	800	NR	775	26	NR	905	1	NR
390	0	NR	520	524	NR	650	743	NR	780	22	NR	910	0	NR
395	1	NR	525	539	NR	655	682	NR	785	19	NR	915	0	NR
400	2	NR	530	554	NR	660	621	NR	790	16	NR	920	0	NR
405	3	NR	535	565	NR	665	563	NR	795	14	NR	925	1	NR
410	5	NR	540	581	NR	670	505	NR	800	12	NR	930	0	NR
415	10	NR	545	593	NR	675	451	NR	805	10	NR	935	0	NR
420	17	NR	550	606	NR	680	401	NR	810	9	NR	940	0	NR
425	32	NR	555	623	NR	685	356	NR	815	8	NR	945	0	NR
430	57	NR	560	645	NR	690	313	NR	820	7	NR	950	0	NR
435	103	NR	565	667	NR	695	274	NR	825	6	NR	955	0	NR
440	175	NR	570	699	NR	700	238	NR	830	5	NR	960	0	NR
445	287	NR	575	732	NR	705	208	NR	835	4	NR	965	0	NR
450	460	NR	580	774	NR	710	180	NR	840	4	NR	970	0	NR
455	550	NR	585	816	NR	715	157	NR	845	3	NR	975	0	NR
460	423	NR	590	862	NR	720	136	NR	850	3	NR	980	0	NR
465	309	NR	595	907	NR	725	117	NR	855	2	NR	985	0	NR
470	269	NR	600	943	NR	730	100	NR	860	2	NR	990	0	NR
475	229	NR	605	974	NR	735	86	NR	865	2	NR	995	0	NR
480	214	NR	610	991	NR	740	72	NR	870	2	NR	1000	0	NR
485	241	NR	615	1000	NR	745	62	NR	875	1	NR			

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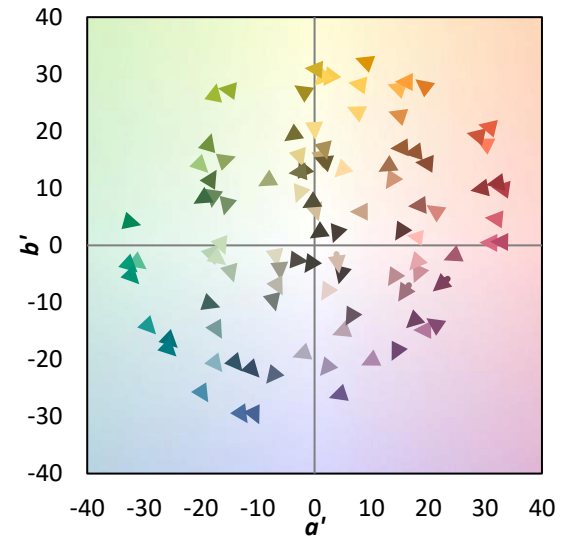
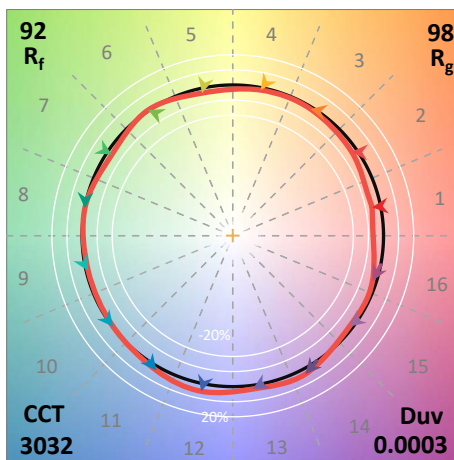
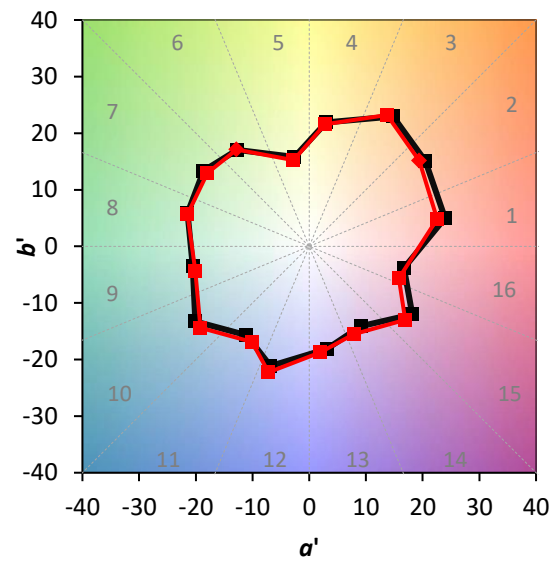
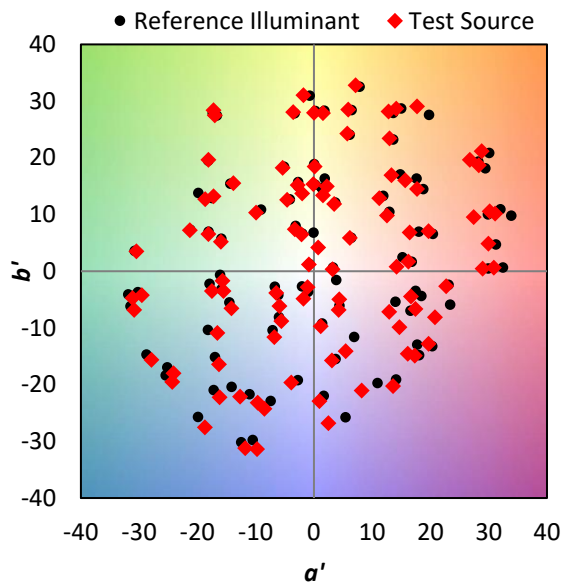
TM-30-18

Summary

$R_f = 91.6$
 $R_g = 98.2$
 $CIE R_a = 92.8$
 $R_9 = 51.3$

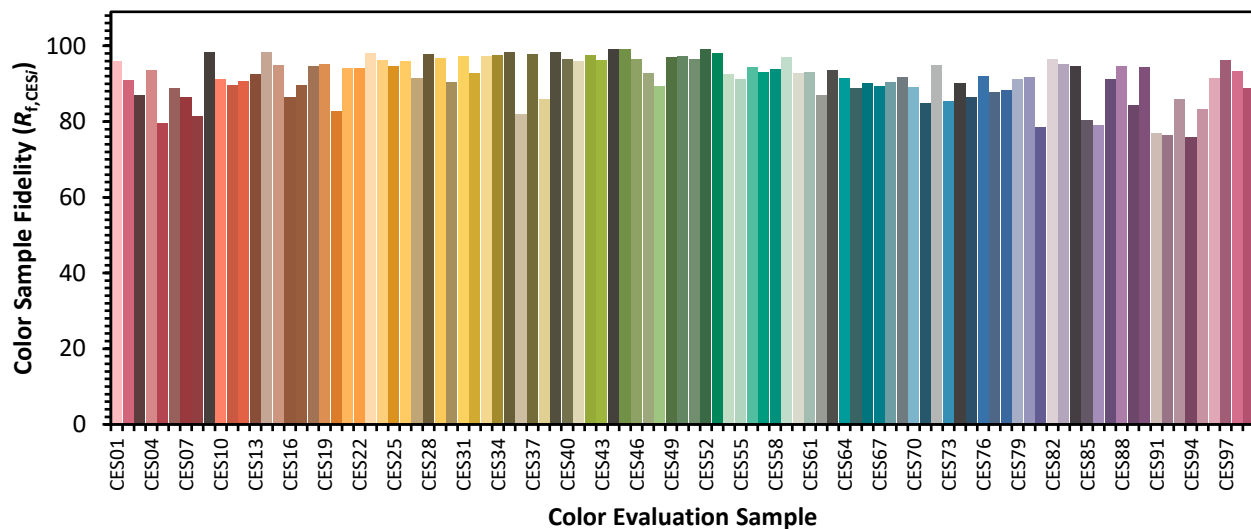


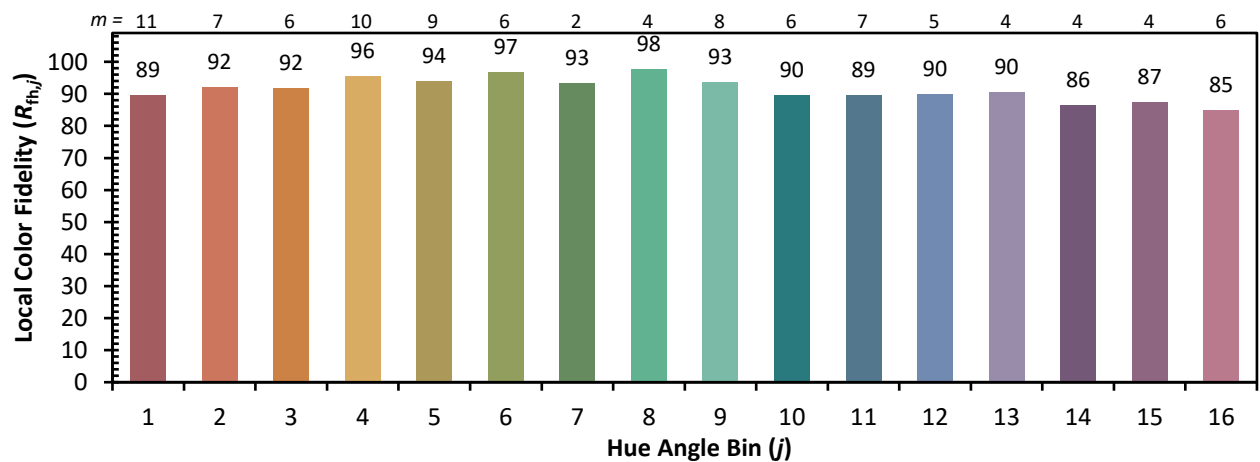
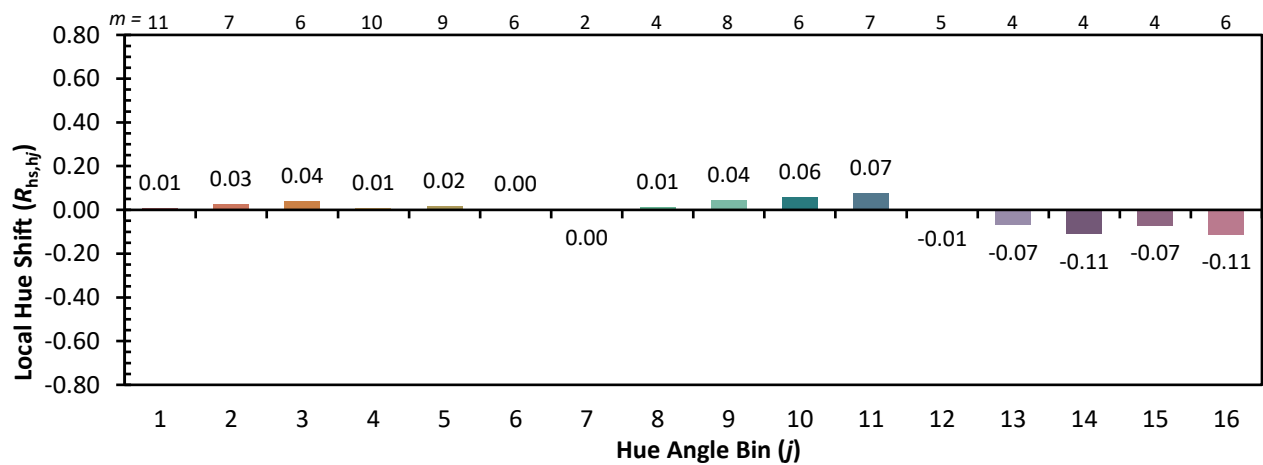
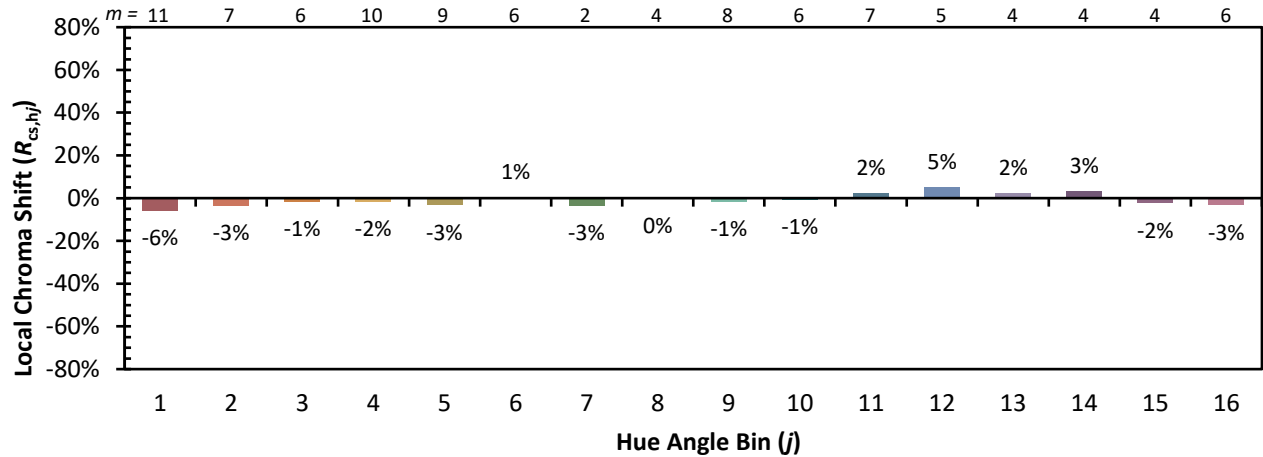
Color Vector Graphics



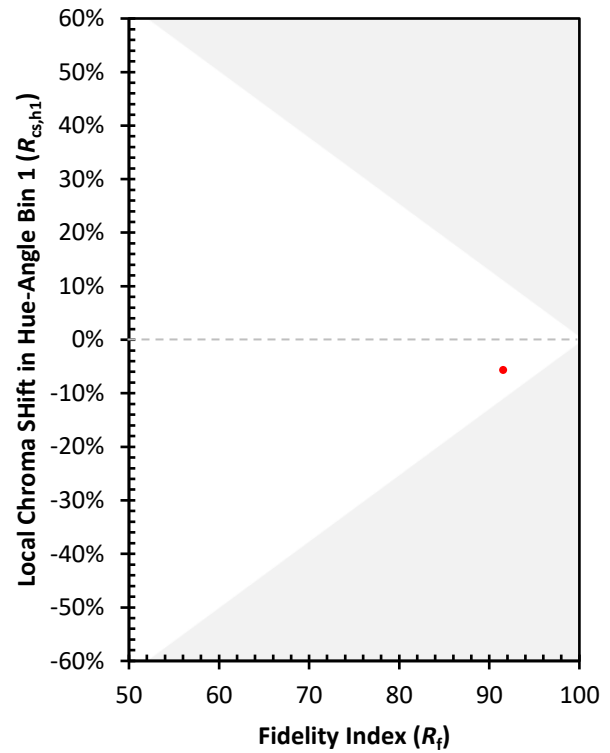
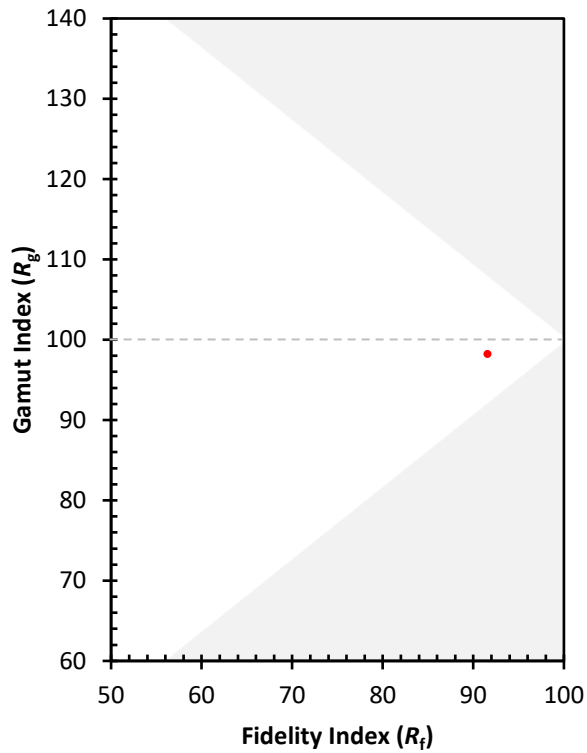
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 96	CES51 = 97	CES76 = 92
CES02 = 63	CES27 = 91	CES52 = 99	CES77 = 88
CES03 = 32	CES28 = 98	CES53 = 98	CES78 = 88
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 91
CES05 = 50	CES30 = 90	CES55 = 91	CES80 = 92
CES06 = 51	CES31 = 97	CES56 = 94	CES81 = 78
CES07 = 43	CES32 = 93	CES57 = 93	CES82 = 96
CES08 = 42	CES33 = 97	CES58 = 94	CES83 = 95
CES09 = 29	CES34 = 97	CES59 = 97	CES84 = 95
CES10 = 76	CES35 = 98	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 82	CES61 = 93	CES86 = 79
CES12 = 65	CES37 = 98	CES62 = 87	CES87 = 91
CES13 = 44	CES38 = 86	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 98	CES64 = 92	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 89	CES90 = 94
CES16 = 48	CES41 = 96	CES66 = 90	CES91 = 77
CES17 = 50	CES42 = 97	CES67 = 89	CES92 = 76
CES18 = 57	CES43 = 96	CES68 = 91	CES93 = 86
CES19 = 72	CES44 = 99	CES69 = 92	CES94 = 76
CES20 = 67	CES45 = 99	CES70 = 89	CES95 = 83
CES21 = 86	CES46 = 96	CES71 = 85	CES96 = 91
CES22 = 79	CES47 = 93	CES72 = 95	CES97 = 96
CES23 = 92	CES48 = 89	CES73 = 85	CES98 = 93
CES24 = 90	CES49 = 97	CES74 = 90	CES99 = 89
CES25 = 72	CES50 = 97	CES75 = 86	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)