

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: P1252203

Luminaire Tested: P3A13R709030DE010 E3LSWW1H

Issue Date: 1/29/2026

**Test Information**

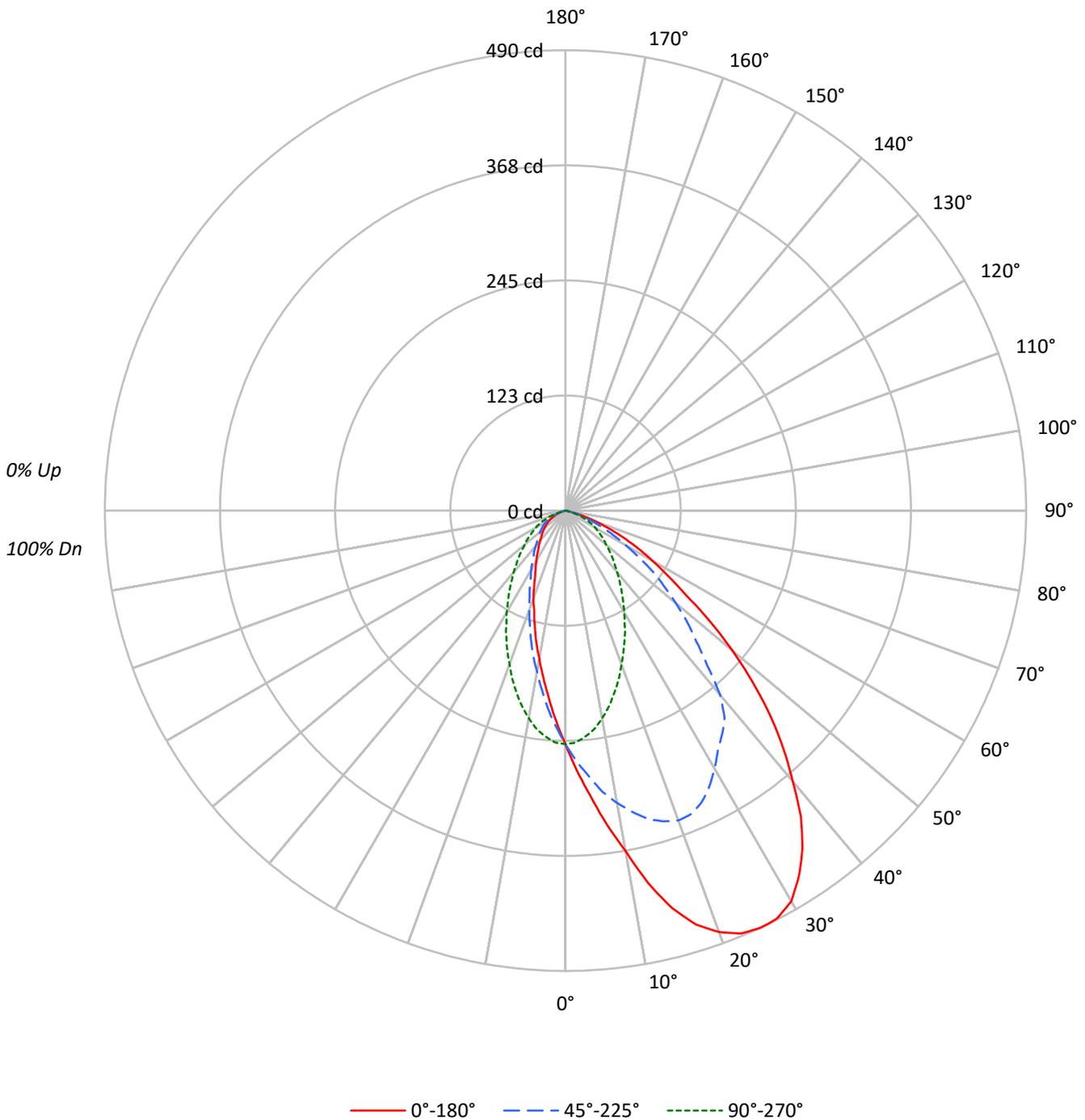
Test Method: LM-79-2019  
Report Number: P1252203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R709030DE010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 495.0 lumens  
Efficiency: N/A  
Efficacy: 33.9 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): 14.6  
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: P1252203  
CATALOG NUMBER: P3A13R709030DE010 E3LSWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P1252203

CATALOG NUMBER: P3A13R709030DE010 E3LSWW1H

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

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

	0°	45°	90°	135°	180°
0°	54491	54491	54491	54491	54491
5°	67070	62426	53159	46665	44200
10°	81896	70339	50010	38766	35648
15°	99433	77140	45585	32191	28695
20°	111380	81907	40627	26206	23265
25°	118555	82892	36002	21751	18340
30°	121588	80341	31650	18484	15648
35°	117624	77791	27813	15794	13518
40°	107716	73137	24503	14055	12051
45°	95359	60968	21770	13056	10885
50°	79042	52194	19172	11974	10064
55°	59563	43468	17701	11278	9137
60°	46794	32629	16007	10482	8026
65°	34971	24023	13854	8717	6538
70°	22504	15323	9873	6283	3590
75°	9489	8303	4745	2372	1186
80°	1768	1768	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 95359 cd/sqm



TEST NUMBER: P1252203  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	4.8
10°-20°	67.8	13.7
20°-30°	99.2	20.0
30°-40°	108.1	21.8
40°-50°	93.5	18.9
50°-60°	62.7	12.7
60°-70°	32.4	6.5
70°-80°	7.6	1.5
80°-90°	0.1	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°	190.6	38.5
0°-40°	298.7	60.3
0°-60°	454.9	91.9
0°-90°	495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	248	248	248	248	248	
5°	305	284	242	212	201	31
15°	438	340	201	142	126	124
25°	490	343	149	90	76	225
35°	439	291	104	59	50	272
45°	308	197	70	42	35	235
55°	156	114	46	30	24	144
65°	67	46	27	17	13	68
75°	11	10	6	3	1	15
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°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
2.5°	276.6	275.2	275.2	272.4	269.6	266.8	262.5	258.3	254.1	249.9	247.1
5°	304.7	306.1	304.7	299.0	292.0	283.6	275.2	265.3	255.5	247.1	241.5
7.5°	336.9	336.9	332.7	325.7	315.9	301.8	287.8	271.0	255.5	241.5	234.5
10°	367.8	367.8	360.8	349.6	334.1	315.9	296.2	273.8	252.7	233.1	224.6
12.5°	405.7	404.3	395.9	377.7	355.2	328.5	301.8	273.8	248.5	224.6	213.4
15°	438.0	436.6	425.4	402.9	373.5	339.8	303.3	271.0	240.1	213.4	200.8
17.5°	461.9	459.1	446.5	422.6	388.9	346.8	304.7	265.3	230.2	200.8	188.1
20°	477.3	475.9	461.9	433.8	397.3	351.0	303.3	258.3	220.4	188.1	174.1
22.5°	487.2	484.4	470.3	439.4	397.3	349.6	297.6	248.5	207.8	175.5	161.5
25°	490.0	488.6	471.7	438.0	393.1	342.6	289.2	238.7	195.1	162.9	148.8
26°	490.0	488.6	471.7	436.6	390.3	338.4	285.0	234.5	190.9	157.2	144.6
27.5°	488.6	487.2	468.9	432.4	384.7	331.3	276.6	226.0	182.5	150.2	136.2
30°	480.2	477.3	459.1	422.6	372.0	317.3	262.5	213.4	169.9	137.6	125.0
32.5°	461.9	459.1	439.4	405.7	358.0	301.8	247.1	199.4	157.2	125.0	113.7
35°	439.4	436.6	417.0	384.7	338.4	290.6	230.2	183.9	143.2	115.1	103.9
37.5°	411.4	407.1	390.3	356.6	314.5	278.0	216.2	168.5	130.6	103.9	94.1
40°	376.3	374.9	359.4	328.5	286.4	255.5	207.8	168.5	119.3	94.1	85.6
42.5°	342.6	339.8	325.7	299.0	261.1	223.2	182.5	161.5	110.9	84.2	77.2
45°	307.5	304.7	292.0	269.6	234.5	196.6	159.6	139.0	95.5	77.2	70.2
47.5°	269.6	266.8	256.9	240.1	209.2	175.5	143.2	113.7	87.0	68.8	63.2
50°	231.7	233.1	224.6	207.8	183.9	153.0	123.5	95.5	74.4	61.8	56.2
52.5°	193.7	192.3	186.7	175.5	158.6	132.0	105.3	81.4	64.6	54.8	51.9
55°	155.8	157.2	154.4	147.4	133.4	113.7	88.4	70.2	57.6	49.1	46.3
57.5°	129.2	130.6	125.0	120.7	109.5	92.7	73.0	59.0	49.1	43.5	40.7
60°	106.7	108.1	103.9	98.3	89.9	74.4	59.0	49.1	43.5	39.3	36.5
62.5°	87.0	85.6	82.8	77.2	70.2	59.0	47.7	40.7	36.5	33.7	32.3
65°	67.4	67.4	64.6	60.4	54.8	46.3	37.9	33.7	30.9	28.1	26.7
67.5°	50.5	50.5	47.7	44.9	39.3	33.7	29.5	26.7	25.3	22.5	21.1
70°	35.1	35.1	33.7	32.3	28.1	23.9	22.5	19.7	18.3	16.8	15.4
72.5°	22.5	22.5	22.5	19.7	18.3	15.4	15.4	14.0	12.6	11.2	11.2
75°	11.2	12.6	11.2	11.2	9.8	9.8	8.4	8.4	7.0	7.0	5.6
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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



TEST NUMBER: P1252203

CATALOG NUMBER: P3A13R709030DE010 E3LSWW1H

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5	248.5
2.5°	244.3	240.1	237.3	233.1	230.2	227.4	226.0	224.6	224.6	224.6
5°	237.3	230.2	223.2	216.2	212.0	207.8	203.6	202.2	200.8	200.8
7.5°	228.8	217.6	207.8	199.4	192.3	188.1	183.9	181.1	179.7	179.7
10°	217.6	203.6	192.3	181.1	174.1	168.5	165.7	161.5	161.5	160.1
12.5°	205.0	188.1	175.5	165.7	158.6	151.6	147.4	144.6	143.2	143.2
15°	190.9	174.1	160.1	148.8	141.8	134.8	130.6	127.8	126.4	126.4
17.5°	176.9	158.6	144.6	133.4	126.4	119.3	115.1	112.3	112.3	110.9
20°	162.9	144.6	130.6	119.3	112.3	106.7	102.5	99.7	98.3	99.7
22.5°	150.2	132.0	117.9	108.1	99.7	94.1	89.9	88.4	87.0	87.0
25°	136.2	119.3	106.7	96.9	89.9	84.2	80.0	78.6	77.2	75.8
26°	132.0	115.1	102.5	92.7	85.6	80.0	77.2	74.4	73.0	73.0
27.5°	126.4	108.1	96.9	87.0	80.0	75.8	71.6	70.2	68.8	68.8
30°	113.7	98.3	87.0	78.6	73.0	67.4	64.6	63.2	61.8	61.8
32.5°	103.9	88.4	78.6	71.6	66.0	61.8	59.0	56.2	56.2	56.2
35°	94.1	80.0	71.6	64.6	59.0	54.8	53.4	51.9	50.5	50.5
37.5°	85.6	73.0	64.6	59.0	54.8	50.5	47.7	46.3	46.3	46.3
40°	77.2	67.4	59.0	53.4	49.1	46.3	43.5	42.1	42.1	42.1
42.5°	70.2	60.4	54.8	49.1	44.9	42.1	40.7	39.3	37.9	37.9
45°	64.6	56.2	49.1	44.9	42.1	39.3	36.5	35.1	35.1	35.1
47.5°	57.6	51.9	44.9	40.7	37.9	35.1	33.7	32.3	32.3	32.3
50°	53.4	47.7	42.1	37.9	35.1	32.3	30.9	29.5	29.5	29.5
52.5°	47.7	43.5	39.3	35.1	32.3	29.5	28.1	26.7	26.7	26.7
55°	43.5	39.3	35.1	32.3	29.5	26.7	25.3	23.9	23.9	23.9
57.5°	39.3	35.1	32.3	29.5	26.7	25.3	22.5	22.5	21.1	21.1
60°	35.1	30.9	28.1	26.7	23.9	22.5	19.7	18.3	18.3	18.3
62.5°	29.5	28.1	25.3	22.5	19.7	18.3	16.8	15.4	15.4	15.4
65°	25.3	23.9	21.1	18.3	16.8	15.4	14.0	12.6	12.6	12.6
67.5°	21.1	18.3	16.8	15.4	14.0	12.6	11.2	9.8	8.4	9.8
70°	15.4	14.0	12.6	11.2	9.8	8.4	7.0	7.0	5.6	5.6
72.5°	9.8	8.4	8.4	7.0	5.6	5.6	4.2	4.2	2.8	2.8
75°	5.6	5.6	4.2	4.2	2.8	2.8	1.4	1.4	1.4	1.4
77.5°	2.8	1.4	1.4	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

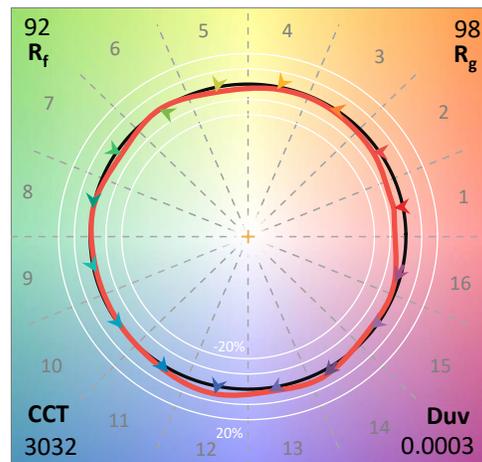
**Test Information**

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 Adjustabled 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  
 Rf: 91.6  
 Rg: 98.2

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



**Test Conditions**

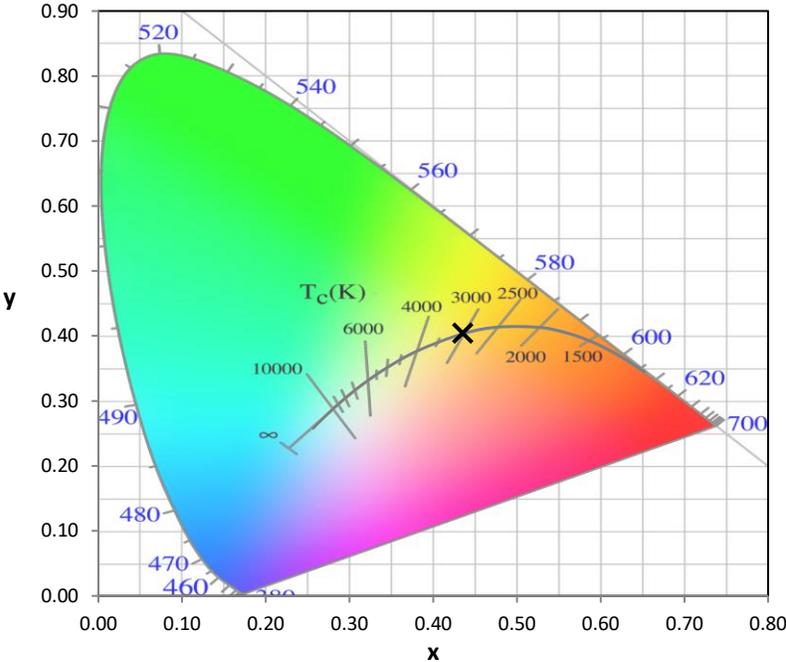
Stabilization Time: 40M  
 Operation Time: 1H 40M  
 Sphere Temperature (°C): 25.1

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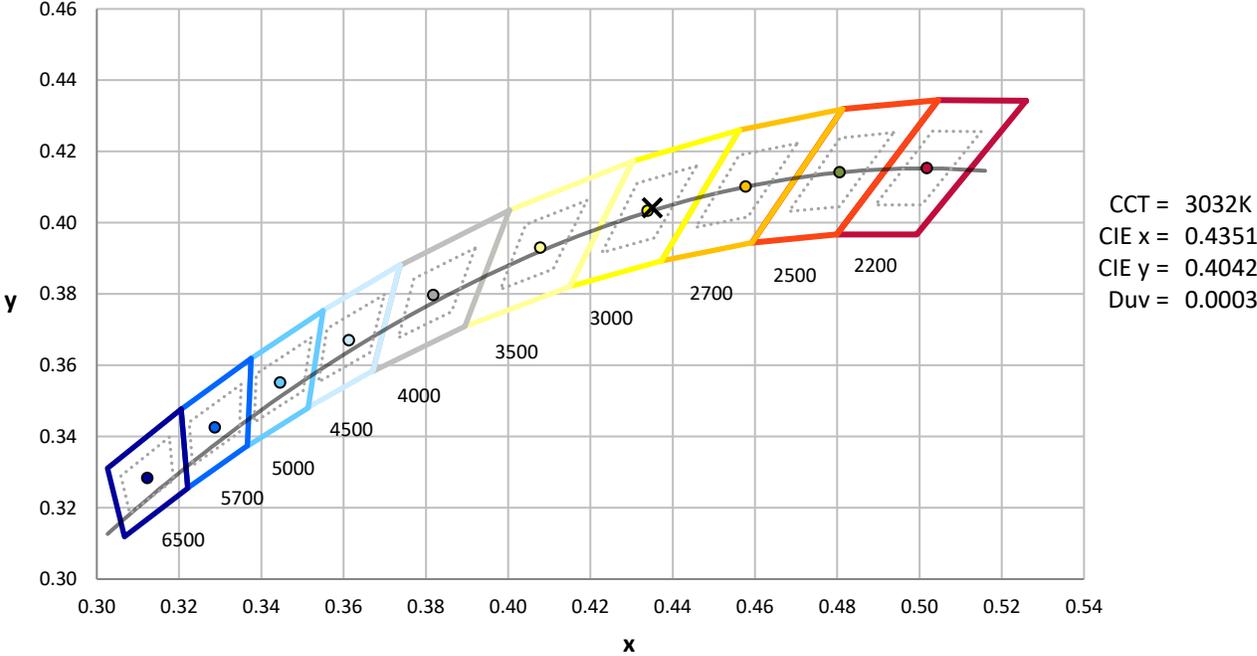
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2024	6/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

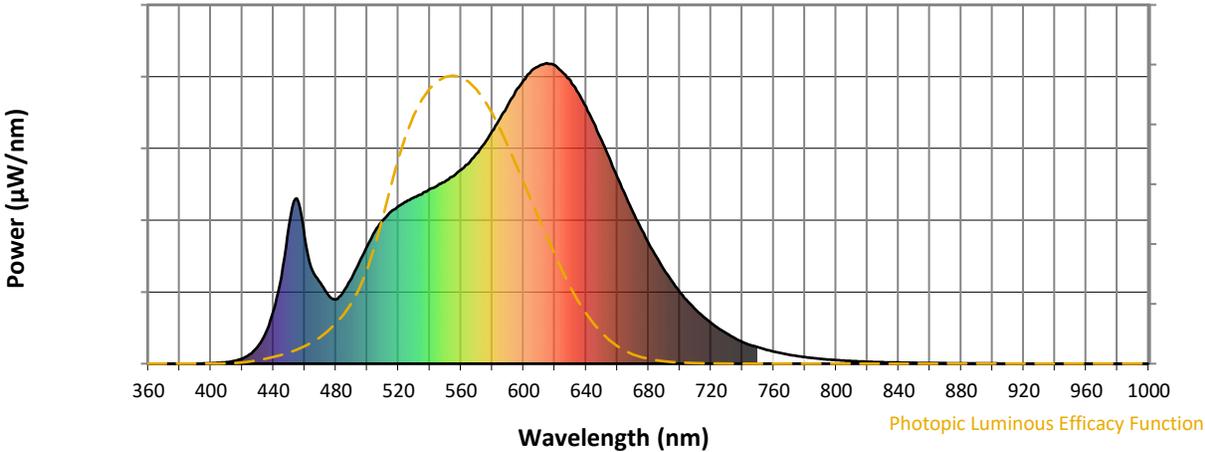


CCT = 3032K  
 CIE x = 0.4351  
 CIE y = 0.4042  
 Duv = 0.0003

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2504-409-28

**Photopic Flux vs. Wavelength**

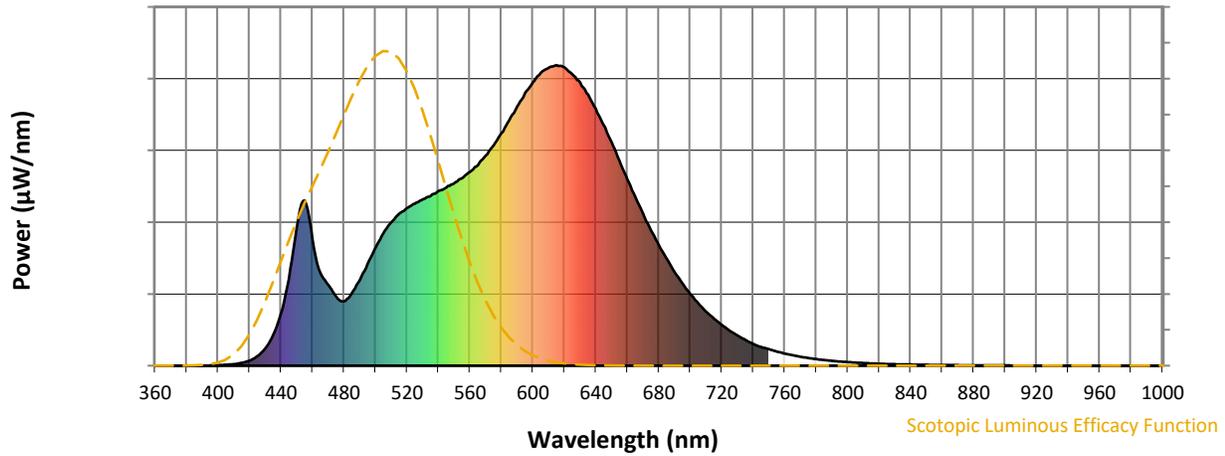


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



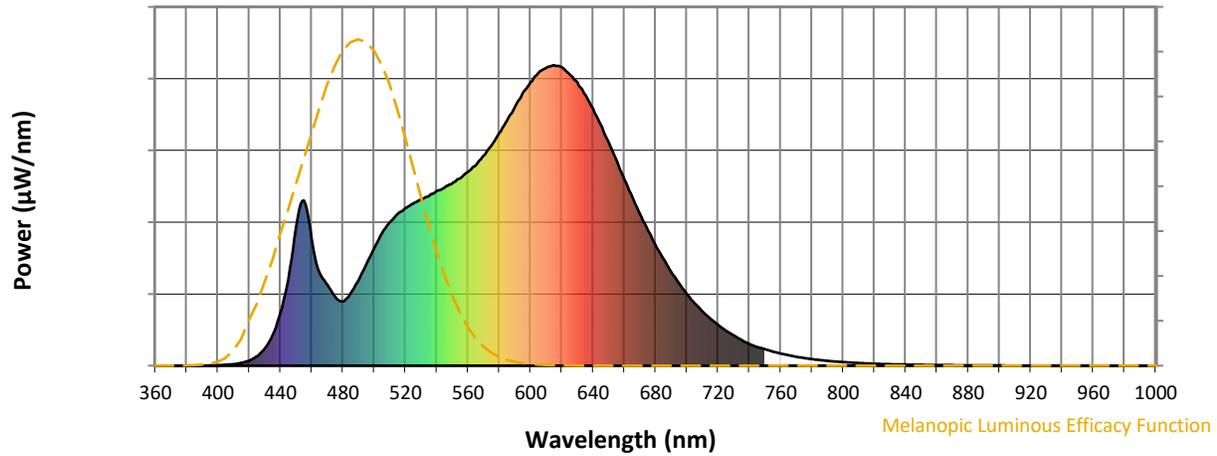
**Scotopic Lumens: NR**

**S/P: 1.44**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



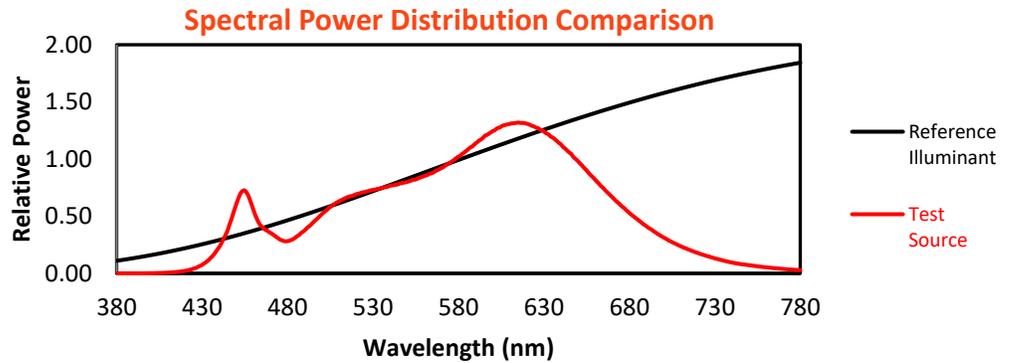
**Melanopic Lumens: NR**

**M/P: 2.84**

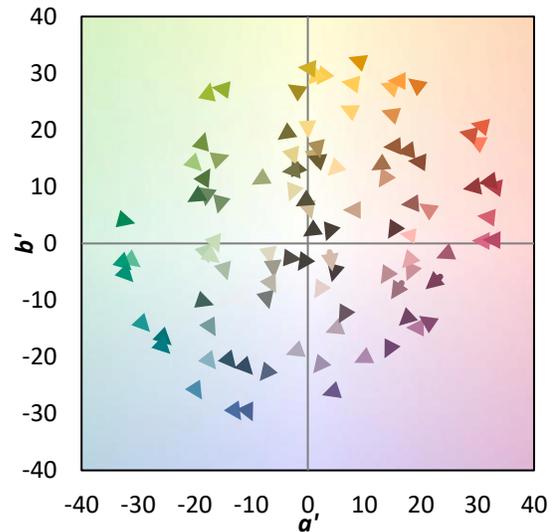
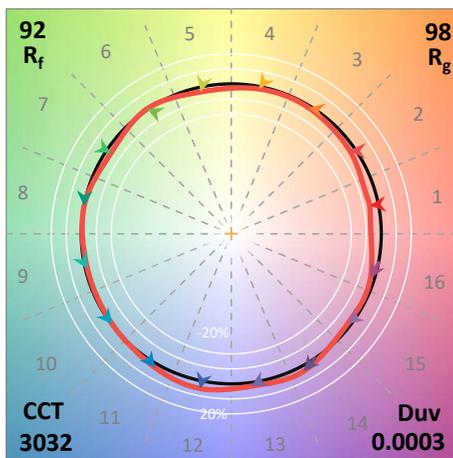
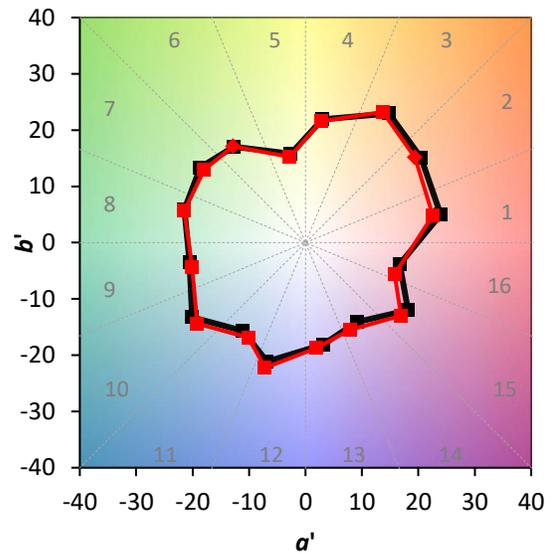
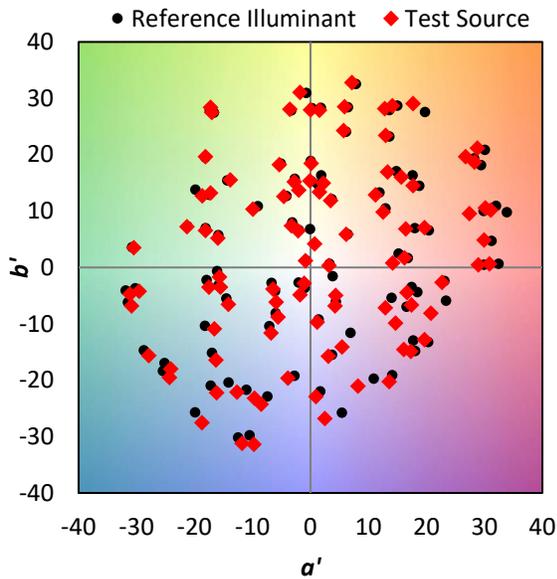
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	285	NR	620	993	NR	750	55	NR	880	1	NR
365	0	NR	495	338	NR	625	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			

**Summary**

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

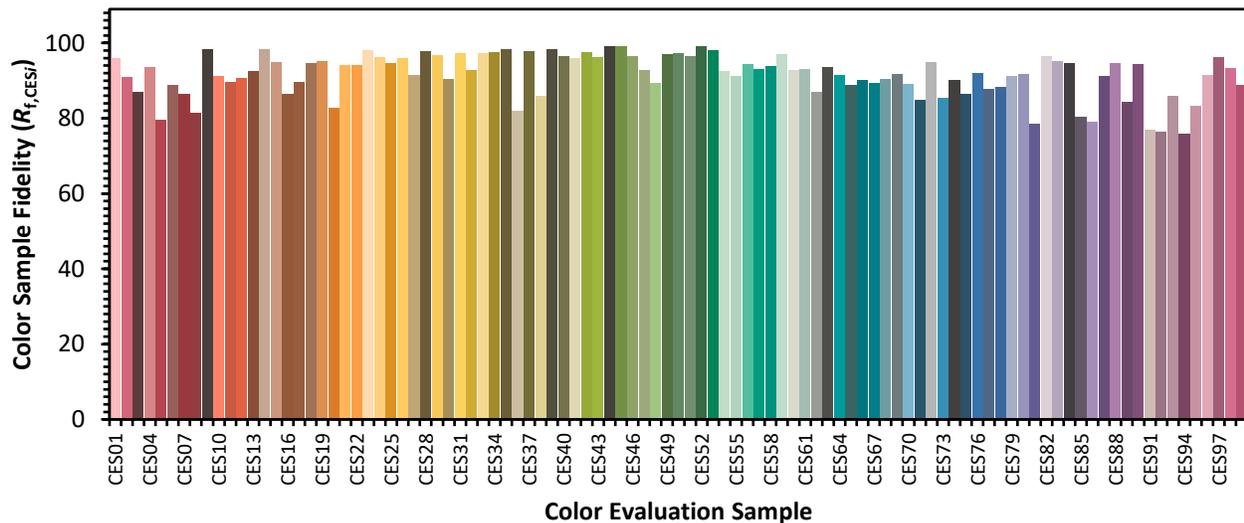


**Color Vector Graphics**

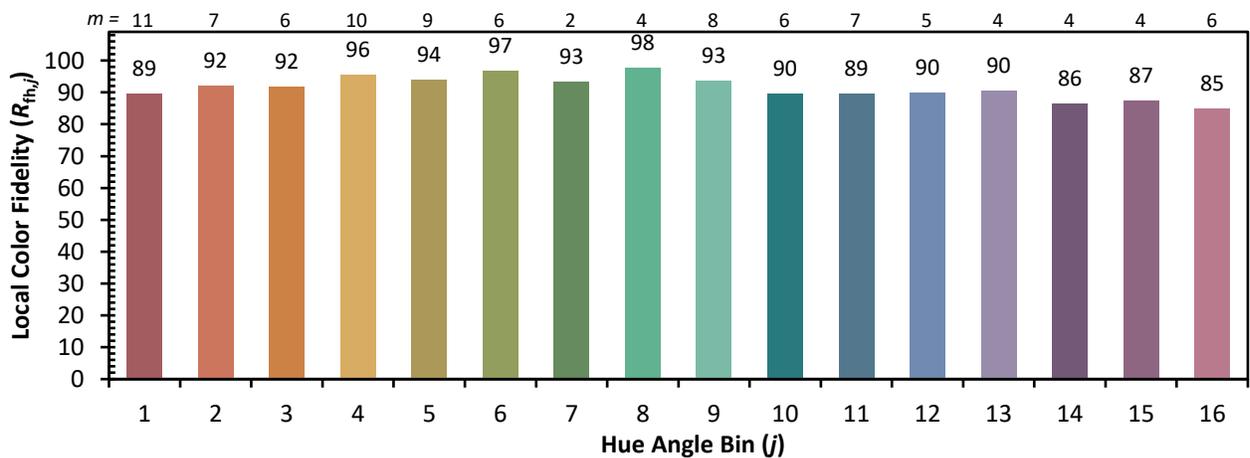
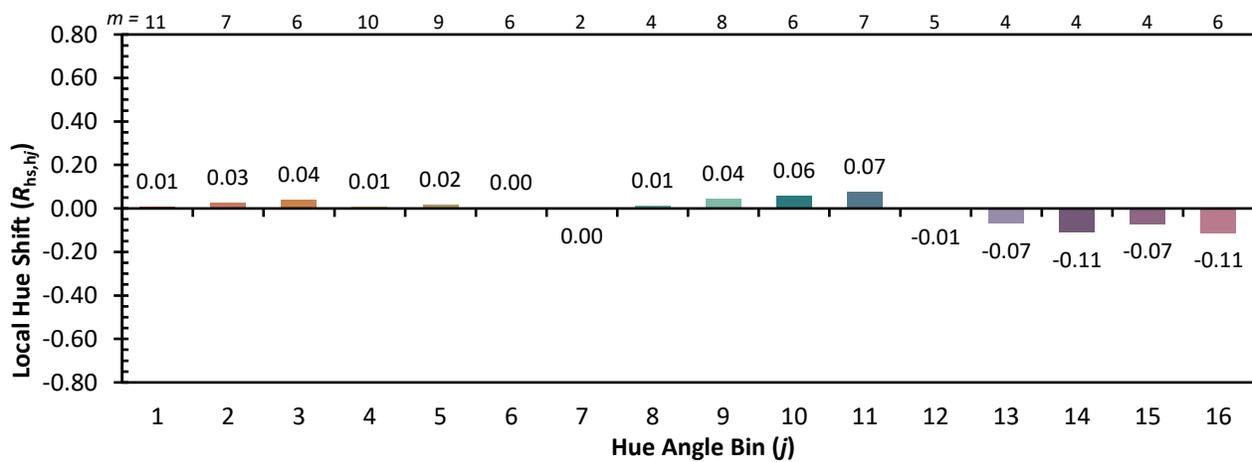
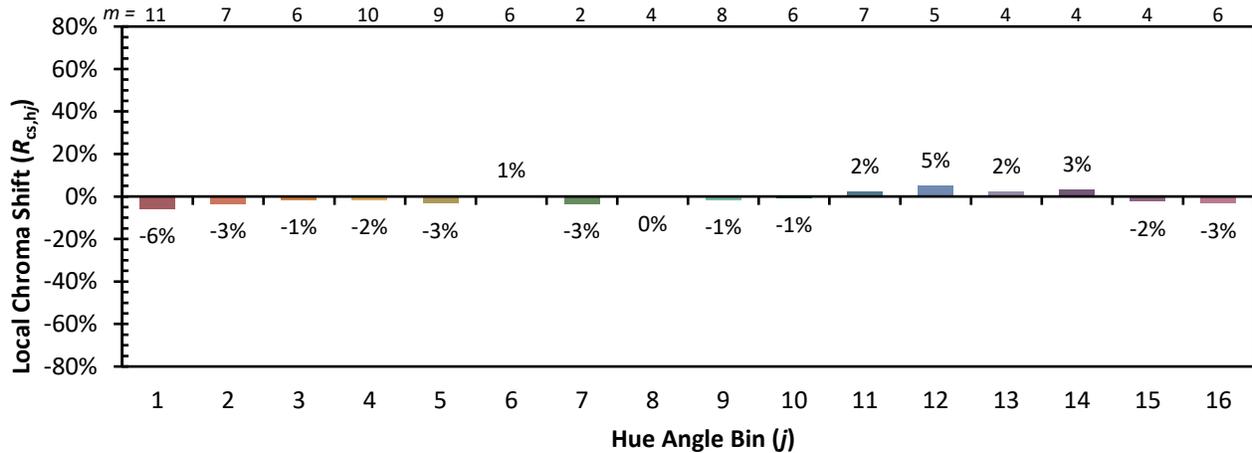


Individual Sample Fidelity Index ( $R_{f,i}$ )

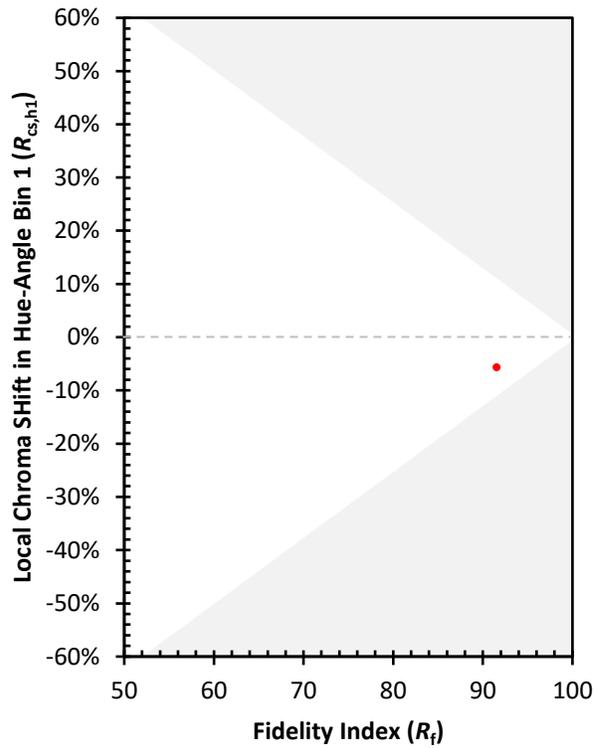
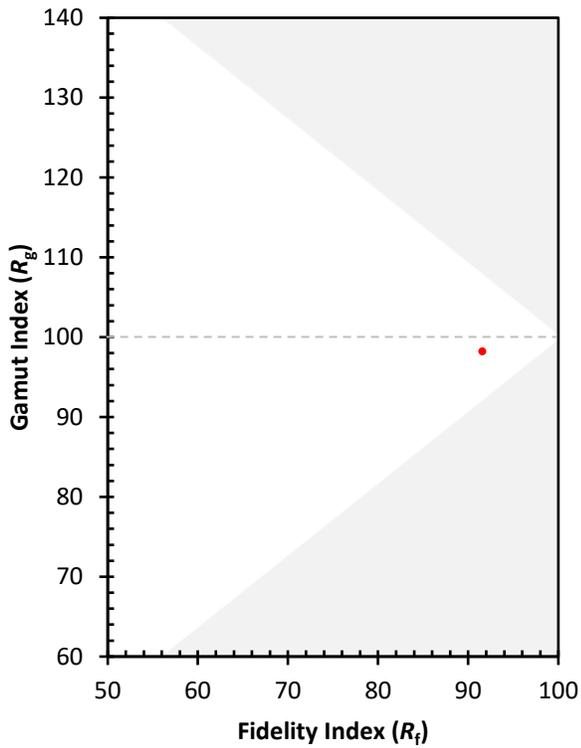
CES01 = 86	CES26 = 96	CES51 = 97	CES76 = 92
CES02 = 63	CES27 = 91	CES52 = 99	CES77 = 88
CES03 = 32	CES28 = 98	CES53 = 98	CES78 = 88
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 91
CES05 = 50	CES30 = 90	CES55 = 91	CES80 = 92
CES06 = 51	CES31 = 97	CES56 = 94	CES81 = 78
CES07 = 43	CES32 = 93	CES57 = 93	CES82 = 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)