

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: P1258683

Luminaire Tested: P3A24R709040D010 E3LSWW1H

Issue Date: 1/29/2026

**Test Information**

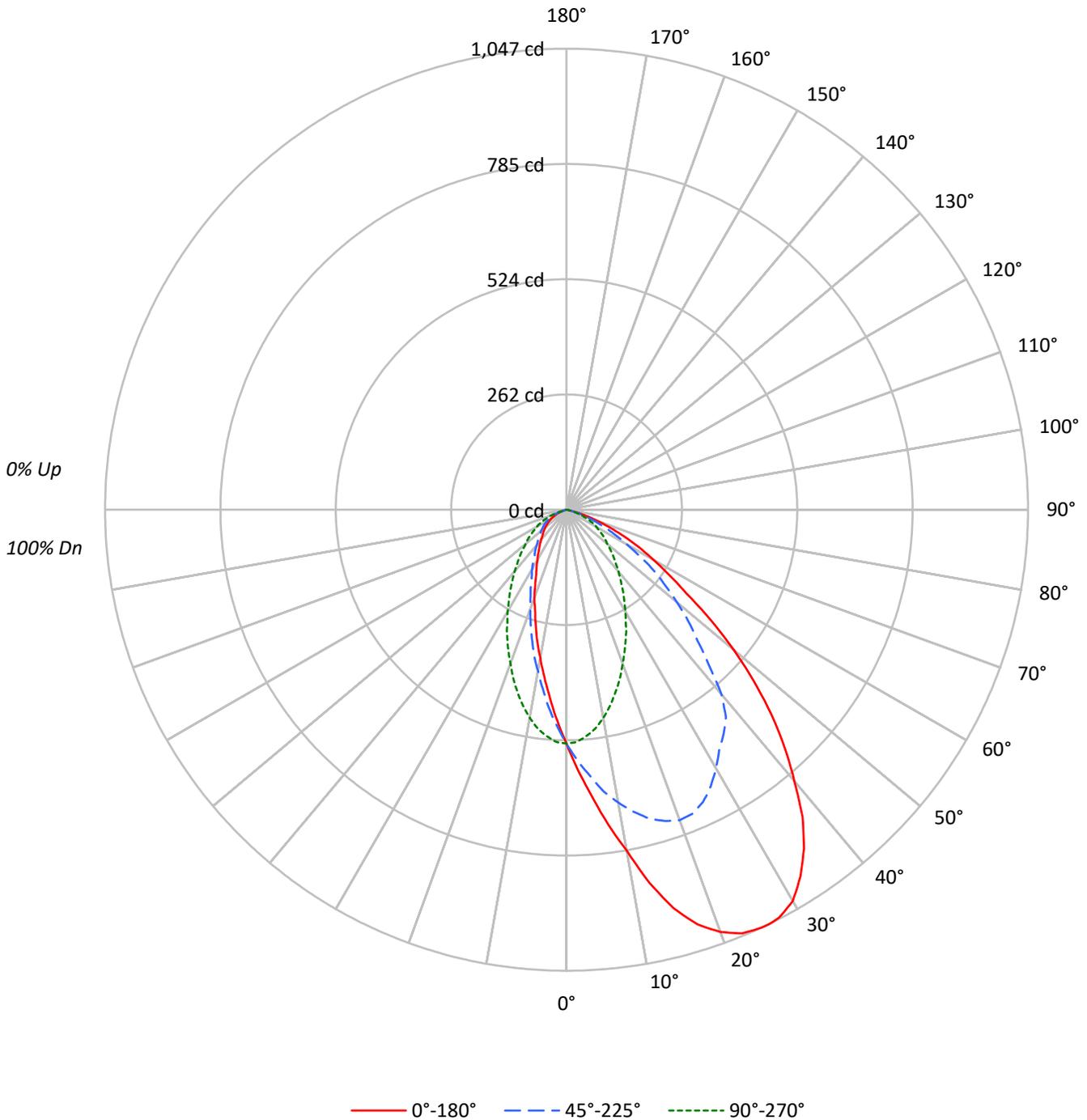
Test Method: LM-79-2019  
Report Number: P1258683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A24R709040D010 E3LSWW1H  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LSWW1H TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1058.0 lumens  
Efficiency: N/A  
Efficacy: 36.7 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): 28.8  
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: P1258683  
CATALOG NUMBER: P3A24R709040D010 E3LSWW1H

### Luminous Intensity Polar Plot





TEST NUMBER: P1258683

CATALOG NUMBER: P3A24R709040D010 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

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

	0°	45°	90°	135°	180°
0°	116460	116460	116460	116460	116460
5°	143341	133436	113603	99736	94453
10°	175058	150342	106901	82853	76173
15°	212532	164859	97413	68809	61317
20°	238091	175062	86831	56028	49728
25°	253394	177155	76964	46454	39196
30°	259863	171723	67631	39500	33423
35°	251417	166290	59454	33729	28911
40°	230203	156321	52384	30056	25763
45°	203804	130277	46516	27910	23258
50°	168898	111587	40937	25586	21492
55°	127346	92938	37848	24085	19498
60°	100036	69731	34208	22367	17104
65°	74716	51367	29575	18679	14009
70°	48085	32698	21157	13464	7694
75°	20334	17792	10167	5083	2542
80°	3788	3788	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 203804 cd/sqm



TEST NUMBER: P1258683  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	4.8
10°-20°	145.0	13.7
20°-30°	212.0	20.0
30°-40°	231.0	21.8
40°-50°	199.9	18.9
50°-60°	133.9	12.7
60°-70°	69.2	6.5
70°-80°	16.4	1.5
80°-90°	0.2	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°	407.4	38.5
0°-40°	638.5	60.3
0°-60°	972.3	91.9
0°-90°	1058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	531	531	531	531	531	
5°	651	606	516	453	429	66
15°	936	726	429	303	270	265
25°	1047	732	318	192	162	481
35°	939	621	222	126	108	582
45°	657	420	150	90	75	503
55°	333	243	99	63	51	308
65°	144	99	57	36	27	145
75°	24	21	12	6	3	31
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1258683  
 CATALOG NUMBER: P3A24R709040D010 E3LSWW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1
2.5°	591.2	588.1	588.1	582.1	576.1	570.1	561.1	552.1	543.1	534.1	528.1
5°	651.2	654.2	651.2	639.2	624.2	606.2	588.1	567.1	546.1	528.1	516.1
7.5°	720.2	720.2	711.2	696.2	675.2	645.2	615.2	579.1	546.1	516.1	501.1
10°	786.2	786.2	771.2	747.2	714.2	675.2	633.2	585.1	540.1	498.1	480.1
12.5°	867.2	864.2	846.2	807.2	759.2	702.2	645.2	585.1	531.1	480.1	456.1
15°	936.2	933.2	909.2	861.2	798.2	726.2	648.2	579.1	513.1	456.1	429.1
17.5°	987.3	981.3	954.2	903.2	831.2	741.2	651.2	567.1	492.1	429.1	402.1
20°	1020.3	1017.3	987.3	927.2	849.2	750.2	648.2	552.1	471.1	402.1	372.1
22.5°	1041.3	1035.3	1005.3	939.2	849.2	747.2	636.2	531.1	444.1	375.1	345.1
25°	1047.3	1044.3	1008.3	936.2	840.2	732.2	618.2	510.1	417.1	348.1	318.1
26°	1047.3	1044.3	1008.3	933.2	834.2	723.2	609.2	501.1	408.1	336.1	309.1
27.5°	1044.3	1041.3	1002.3	924.2	822.2	708.2	591.2	483.1	390.1	321.1	291.1
30°	1026.3	1020.3	981.3	903.2	795.2	678.2	561.1	456.1	363.1	294.1	267.1
32.5°	987.3	981.3	939.2	867.2	765.2	645.2	528.1	426.1	336.1	267.1	243.1
35°	939.2	933.2	891.2	822.2	723.2	621.2	492.1	393.1	306.1	246.1	222.1
37.5°	879.2	870.2	834.2	762.2	672.2	594.2	462.1	360.1	279.1	222.1	201.1
40°	804.2	801.2	768.2	702.2	612.2	546.1	444.1	360.1	255.1	201.1	183.0
42.5°	732.2	726.2	696.2	639.2	558.1	477.1	390.1	345.1	237.1	180.0	165.0
45°	657.2	651.2	624.2	576.1	501.1	420.1	420.1	297.1	204.1	165.0	150.0
47.5°	576.1	570.1	549.1	513.1	447.1	375.1	306.1	243.1	186.0	147.0	135.0
50°	495.1	498.1	480.1	444.1	393.1	327.1	264.1	204.1	159.0	132.0	120.0
52.5°	414.1	411.1	399.1	375.1	339.1	282.1	225.1	174.0	138.0	117.0	111.0
55°	333.1	336.1	330.1	315.1	285.1	243.1	189.0	150.0	123.0	105.0	99.0
57.5°	276.1	279.1	267.1	258.1	234.1	198.1	156.0	126.0	105.0	93.0	87.0
60°	228.1	231.1	222.1	210.1	192.0	159.0	126.0	105.0	93.0	84.0	78.0
62.5°	186.0	183.0	177.0	165.0	150.0	126.0	102.0	87.0	78.0	72.0	69.0
65°	144.0	144.0	138.0	129.0	117.0	99.0	81.0	72.0	66.0	60.0	57.0
67.5°	108.0	108.0	102.0	96.0	84.0	72.0	63.0	57.0	54.0	48.0	45.0
70°	75.0	75.0	72.0	69.0	60.0	51.0	48.0	42.0	39.0	36.0	33.0
72.5°	48.0	48.0	48.0	42.0	39.0	33.0	33.0	30.0	27.0	24.0	24.0
75°	24.0	27.0	24.0	24.0	21.0	21.0	18.0	18.0	15.0	15.0	12.0
77.5°	9.0	9.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0	6.0	6.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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	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: P1258683  
 CATALOG NUMBER: P3A24R709040D010 E3LSWW1H

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1	531.1
2.5°	522.1	513.1	507.1	498.1	492.1	486.1	483.1	480.1	480.1	480.1
5°	507.1	492.1	477.1	462.1	453.1	444.1	435.1	432.1	429.1	429.1
7.5°	489.1	465.1	444.1	426.1	411.1	402.1	393.1	387.1	384.1	384.1
10°	465.1	435.1	411.1	387.1	372.1	360.1	354.1	345.1	345.1	342.1
12.5°	438.1	402.1	375.1	354.1	339.1	324.1	315.1	309.1	306.1	306.1
15°	408.1	372.1	342.1	318.1	303.1	288.1	279.1	273.1	270.1	270.1
17.5°	378.1	339.1	309.1	285.1	270.1	255.1	246.1	240.1	240.1	237.1
20°	348.1	309.1	279.1	255.1	240.1	228.1	219.1	213.1	210.1	213.1
22.5°	321.1	282.1	252.1	231.1	213.1	201.1	192.0	189.0	186.0	186.0
25°	291.1	255.1	228.1	207.1	192.0	180.0	171.0	168.0	165.0	162.0
26°	282.1	246.1	219.1	198.1	183.0	171.0	165.0	159.0	156.0	156.0
27.5°	270.1	231.1	207.1	186.0	171.0	162.0	153.0	150.0	147.0	147.0
30°	243.1	210.1	186.0	168.0	156.0	144.0	138.0	135.0	132.0	132.0
32.5°	222.1	189.0	168.0	153.0	141.0	132.0	126.0	120.0	120.0	120.0
35°	201.1	171.0	153.0	138.0	126.0	117.0	114.0	111.0	108.0	108.0
37.5°	183.0	156.0	138.0	126.0	117.0	108.0	102.0	99.0	99.0	99.0
40°	165.0	144.0	126.0	114.0	105.0	99.0	93.0	90.0	90.0	90.0
42.5°	150.0	129.0	117.0	105.0	96.0	90.0	87.0	84.0	81.0	81.0
45°	138.0	120.0	105.0	96.0	90.0	84.0	78.0	75.0	75.0	75.0
47.5°	123.0	111.0	96.0	87.0	81.0	75.0	72.0	69.0	69.0	69.0
50°	114.0	102.0	90.0	81.0	75.0	69.0	66.0	63.0	63.0	63.0
52.5°	102.0	93.0	84.0	75.0	69.0	63.0	60.0	57.0	57.0	57.0
55°	93.0	84.0	75.0	69.0	63.0	57.0	54.0	51.0	51.0	51.0
57.5°	84.0	75.0	69.0	63.0	57.0	54.0	48.0	48.0	45.0	45.0
60°	75.0	66.0	60.0	57.0	51.0	48.0	42.0	39.0	39.0	39.0
62.5°	63.0	60.0	54.0	48.0	42.0	39.0	36.0	33.0	33.0	33.0
65°	54.0	51.0	45.0	39.0	36.0	33.0	30.0	27.0	27.0	27.0
67.5°	45.0	39.0	36.0	33.0	30.0	27.0	24.0	21.0	18.0	21.0
70°	33.0	30.0	27.0	24.0	21.0	18.0	15.0	15.0	12.0	12.0
72.5°	21.0	18.0	18.0	15.0	12.0	12.0	9.0	9.0	6.0	6.0
75°	12.0	12.0	9.0	9.0	6.0	6.0	3.0	3.0	3.0	3.0
77.5°	6.0	3.0	3.0	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: SP1-2504-409-14

Test Date: 05/14/2025

Luminaire Tested: LD3A05R129040D010 E3D1H

Data in this report applies to families of products including LD3A

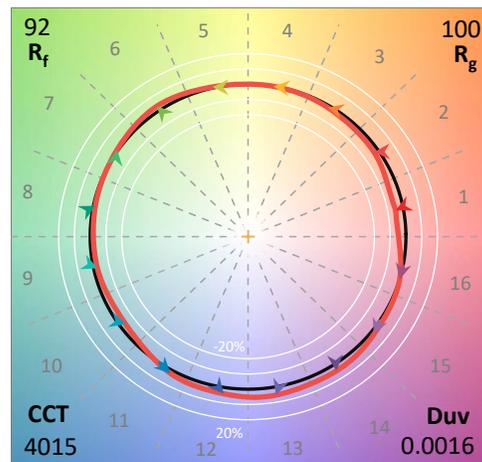
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2504-409-14  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 05/18/2025  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: IRiS  
 Catalog Number: **LD3A05R129040D010 E3D1H**  
 Description: 3in Adjustable LED luminaire with, R12 optic, 4000K CCT AND, 90CRI LEDS, E3D1H TRIM

**Spectral Parameters**

CCT (K): 4015  
 CIE u': 0.2239  
 CIE v': 0.5033  
 Duv: 0.0016  
 CIE x: 0.3809  
 CIE y: 0.3805  
 CIE z: 0.2386  
 Peak Wavelength (nm): 450  
 Dominant Wavelength (nm): 578  
 Purity: 28.51686  
 Rf: 91.5  
 Rg: 100.3

CRI (Ra):	92.3		
R1:	93.1	R9:	58.4
R2:	93.8	R10:	85.3
R3:	94.2	R11:	94.4
R4:	94.2	R12:	74.9
R5:	92.7	R13:	93.3
R6:	91.9	R14:	96.5
R7:	94.0	R15:	89.0
R8:	84.8		



**Test Conditions**

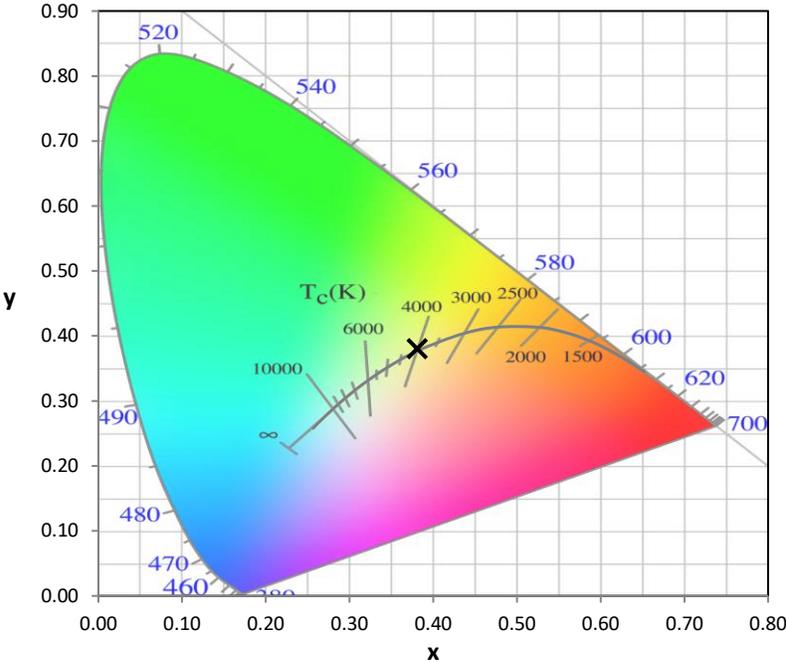
Stabilization Time: 26M  
 Operation Time: 1H 26M  
 Sphere Temperature (°C): 24.9

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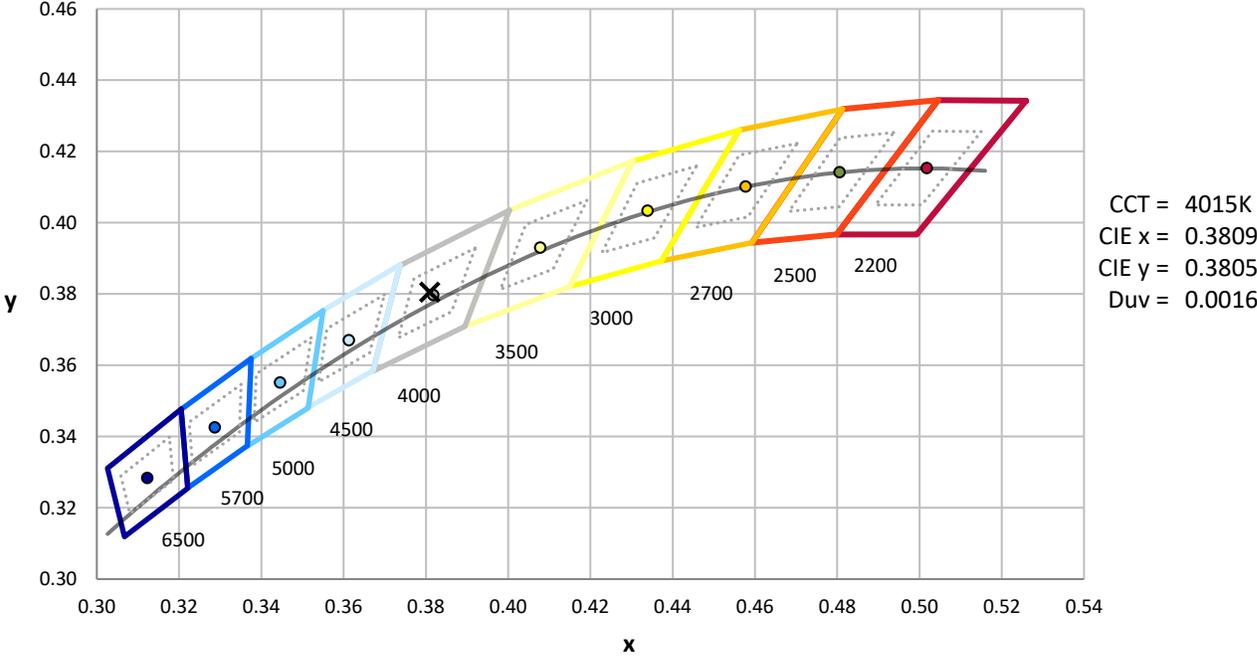
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



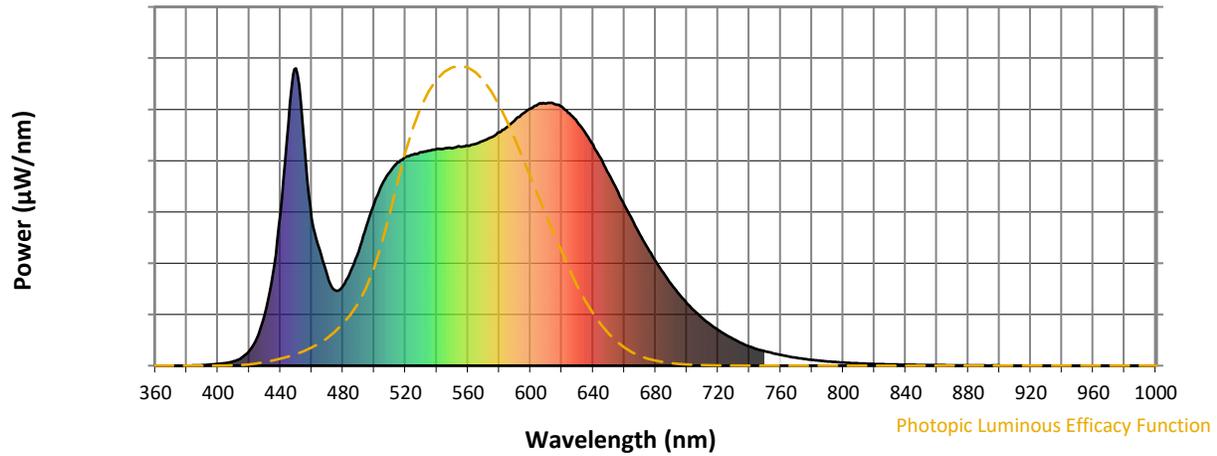
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

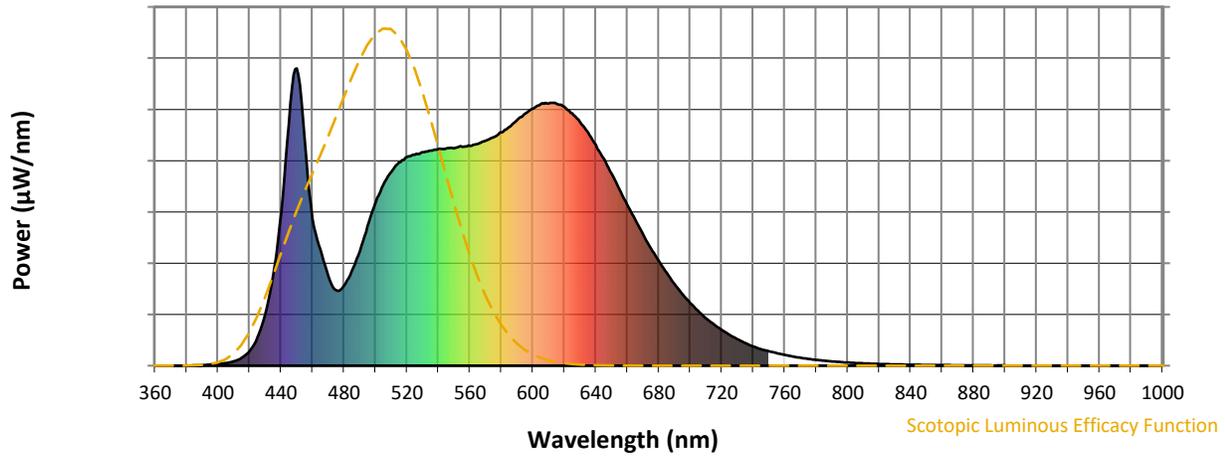


**Photopic Lumens: NR**

$\lambda$ (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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



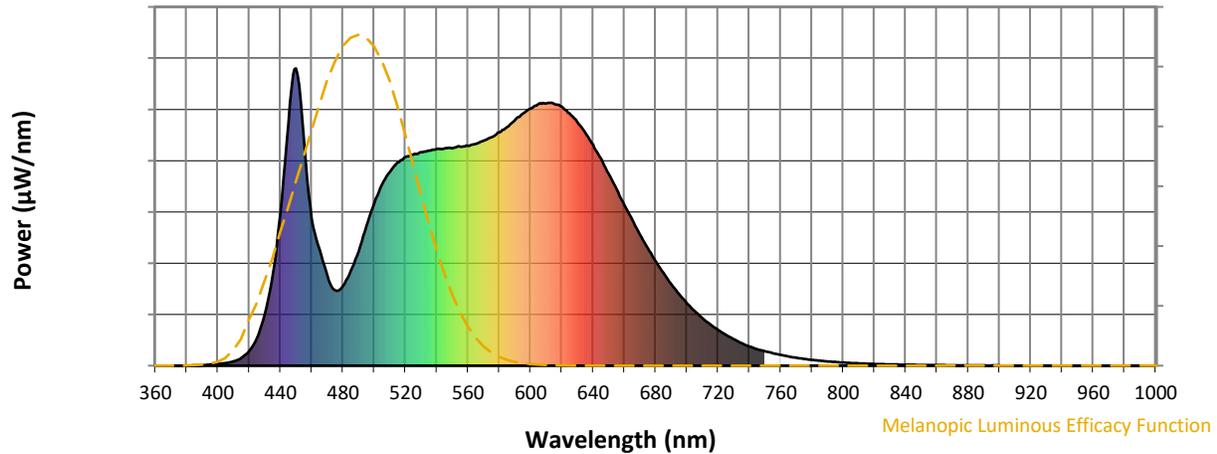
**Scotopic Lumens: NR**

**S/P: 1.77**

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	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

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**Melanopic Flux vs. Wavelength**



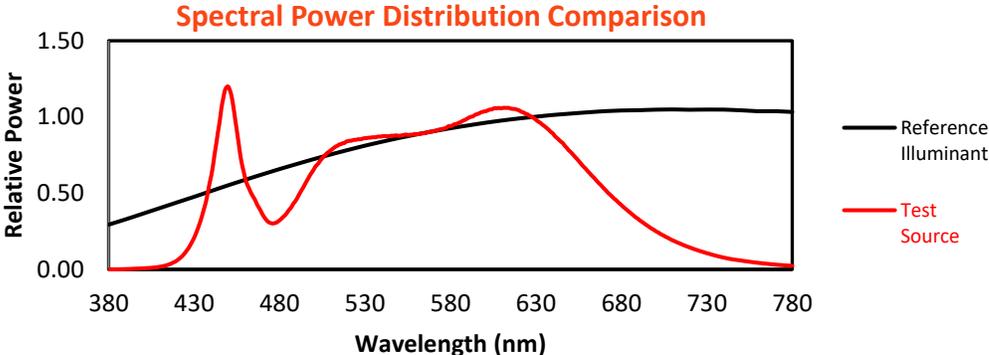
**Melanopic Lumens: NR**

**M/P: 3.62**

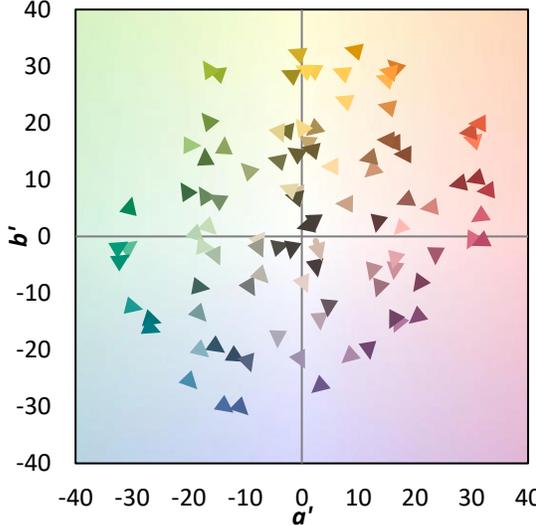
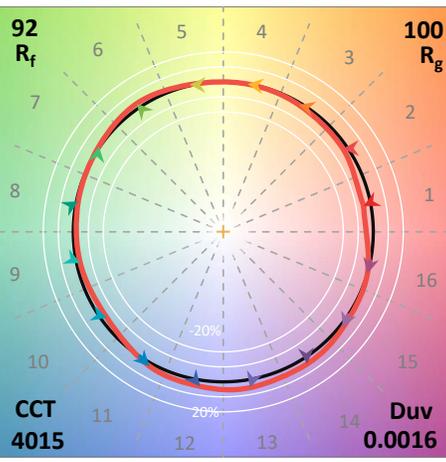
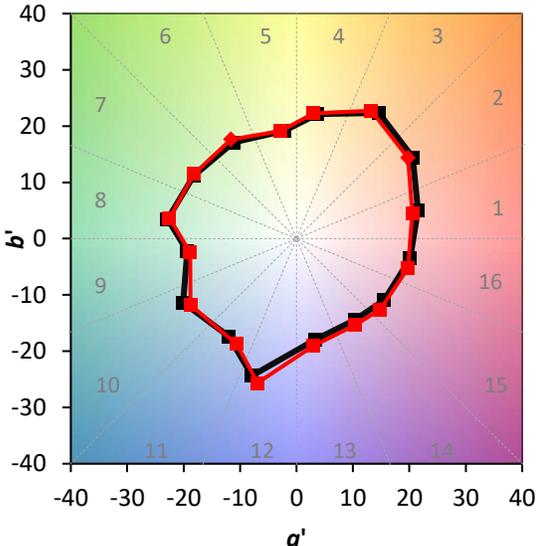
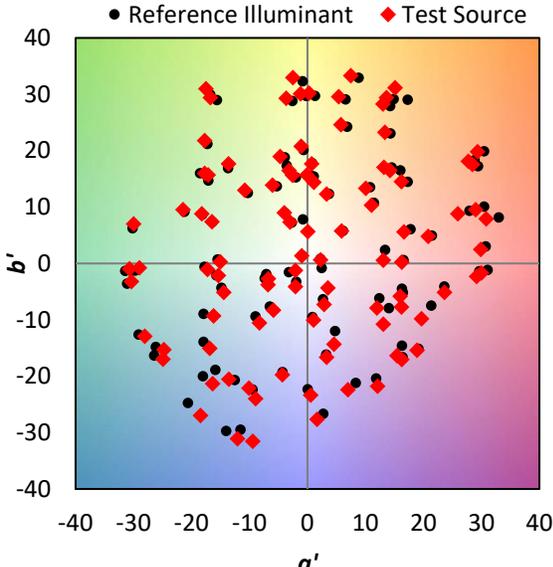
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	385	NR	620	871	NR	750	49	NR	880	1	NR
365	0	NR	495	468	NR	625	849	NR	755	42	NR	885	1	NR
370	0	NR	500	547	NR	630	819	NR	760	36	NR	890	1	NR
375	0	NR	505	609	NR	635	784	NR	765	31	NR	895	1	NR
380	0	NR	510	652	NR	640	744	NR	770	27	NR	900	1	NR
385	1	NR	515	684	NR	645	697	NR	775	23	NR	905	0	NR
390	2	NR	520	702	NR	650	645	NR	780	20	NR	910	0	NR
395	4	NR	525	710	NR	655	594	NR	785	17	NR	915	0	NR
400	6	NR	530	718	NR	660	541	NR	790	14	NR	920	0	NR
405	9	NR	535	723	NR	665	491	NR	795	12	NR	925	0	NR
410	15	NR	540	729	NR	670	441	NR	800	11	NR	930	0	NR
415	26	NR	545	731	NR	675	395	NR	805	9	NR	935	0	NR
420	49	NR	550	731	NR	680	352	NR	810	8	NR	940	0	NR
425	95	NR	555	736	NR	685	312	NR	815	7	NR	945	0	NR
430	173	NR	560	740	NR	690	275	NR	820	6	NR	950	0	NR
435	305	NR	565	746	NR	695	241	NR	825	5	NR	955	0	NR
440	511	NR	570	757	NR	700	210	NR	830	4	NR	960	0	NR
445	811	NR	575	768	NR	705	184	NR	835	4	NR	965	0	NR
450	1000	NR	580	785	NR	710	159	NR	840	3	NR	970	0	NR
455	760	NR	585	803	NR	715	139	NR	845	3	NR	975	0	NR
460	496	NR	590	826	NR	720	120	NR	850	3	NR	980	0	NR
465	392	NR	595	848	NR	725	104	NR	855	2	NR	985	0	NR
470	302	NR	600	865	NR	730	89	NR	860	2	NR	990	0	NR
475	253	NR	605	879	NR	735	76	NR	865	2	NR	995	0	NR
480	269	NR	610	882	NR	740	65	NR	870	1	NR	1000	0	NR
485	319	NR	615	881	NR	745	55	NR	875	1	NR			

**Summary**

$R_f = 91.5$   
 $R_g = 100.3$   
 CIE  $R_a = 92.3$   
 $R_9 = 58.4$

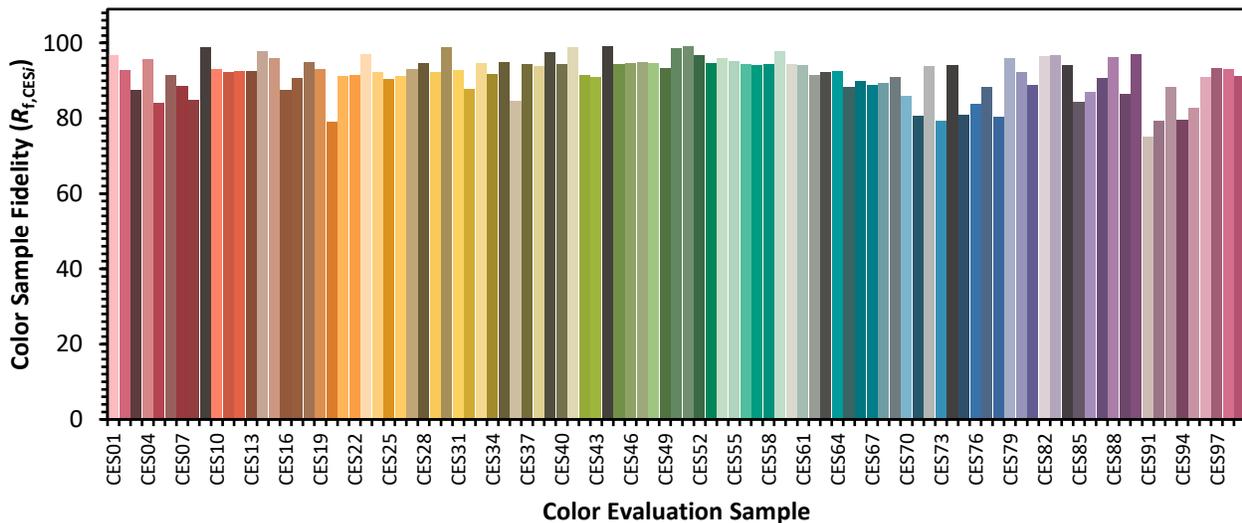


**Color Vector Graphics**

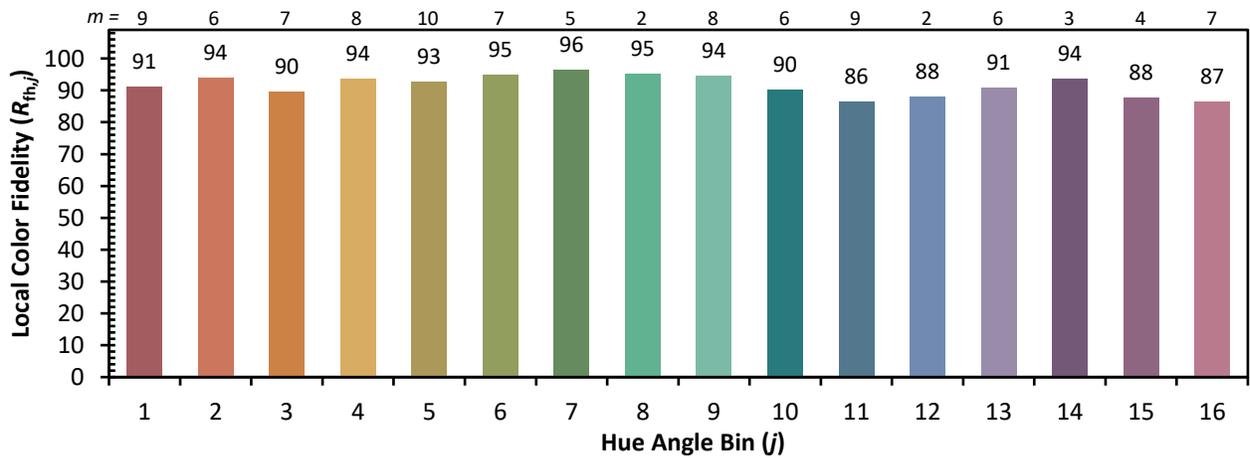
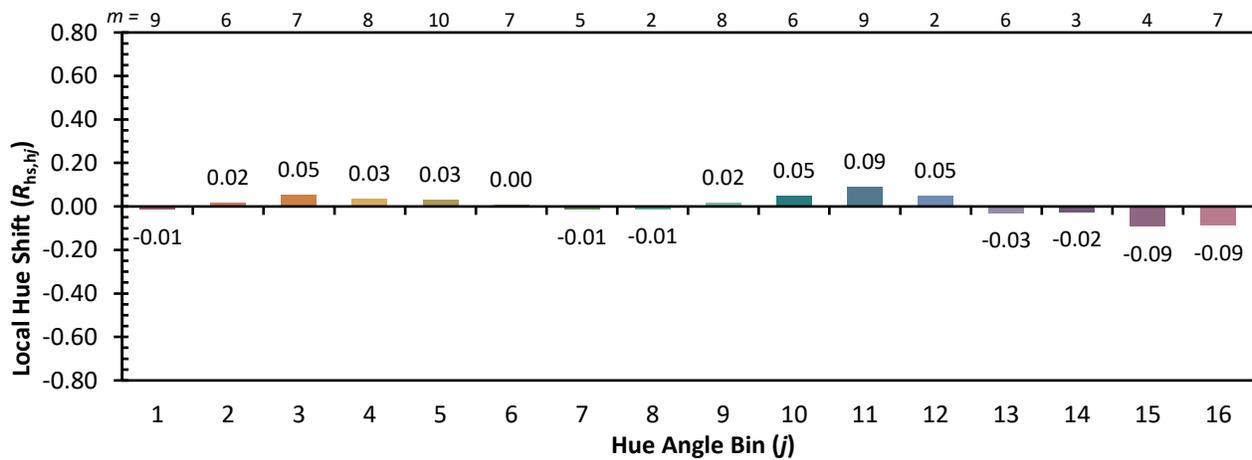
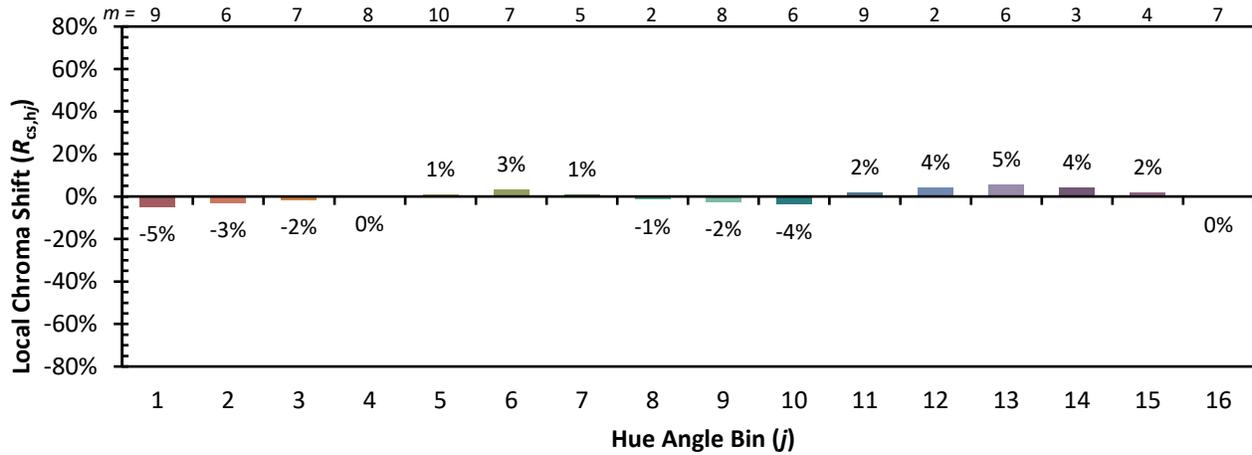


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

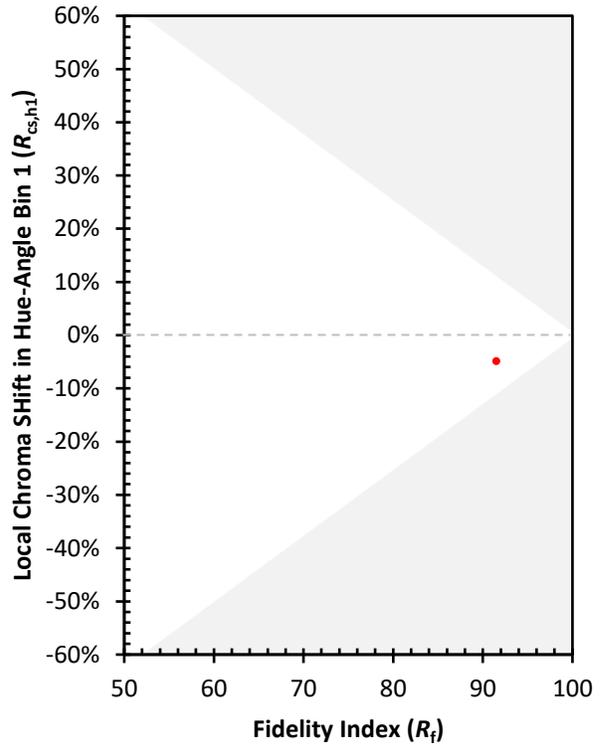
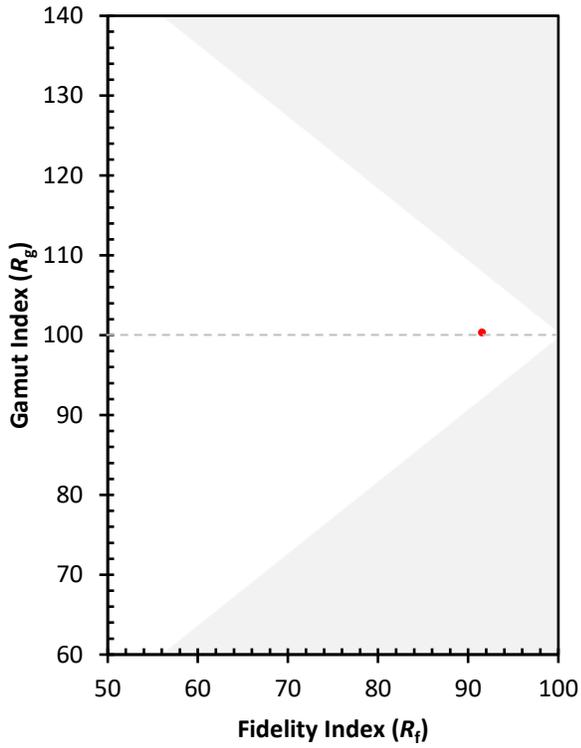
CES01 = 85	CES26 = 91	CES51 = 99	CES76 = 84
CES02 = 61	CES27 = 93	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 69	CES29 = 92	CES54 = 96	CES79 = 96
CES05 = 49	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 50	CES31 = 93	CES56 = 94	CES81 = 89
CES07 = 42	CES32 = 88	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 95	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 94
CES10 = 74	CES35 = 95	CES60 = 94	CES85 = 84
CES11 = 57	CES36 = 85	CES61 = 94	CES86 = 87
CES12 = 63	CES37 = 94	CES62 = 92	CES87 = 91
CES13 = 43	CES38 = 94	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 98	CES64 = 93	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 97
CES16 = 47	CES41 = 99	CES66 = 90	CES91 = 75
CES17 = 49	CES42 = 91	CES67 = 89	CES92 = 79
CES18 = 56	CES43 = 91	CES68 = 89	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 80
CES20 = 66	CES45 = 94	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 95	CES71 = 81	CES96 = 91
CES22 = 78	CES47 = 95	CES72 = 94	CES97 = 93
CES23 = 91	CES48 = 95	CES73 = 79	CES98 = 93
CES24 = 90	CES49 = 93	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 99	CES75 = 81	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)