

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: P1260935

Luminaire Tested: P3A20R709050D010 E3LSWW1H

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1260935
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: P3A20R709050D010 E3LSWW1H
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3LSWW1H TRIM
Light Source: -
Ballast/Driver: -

Summary

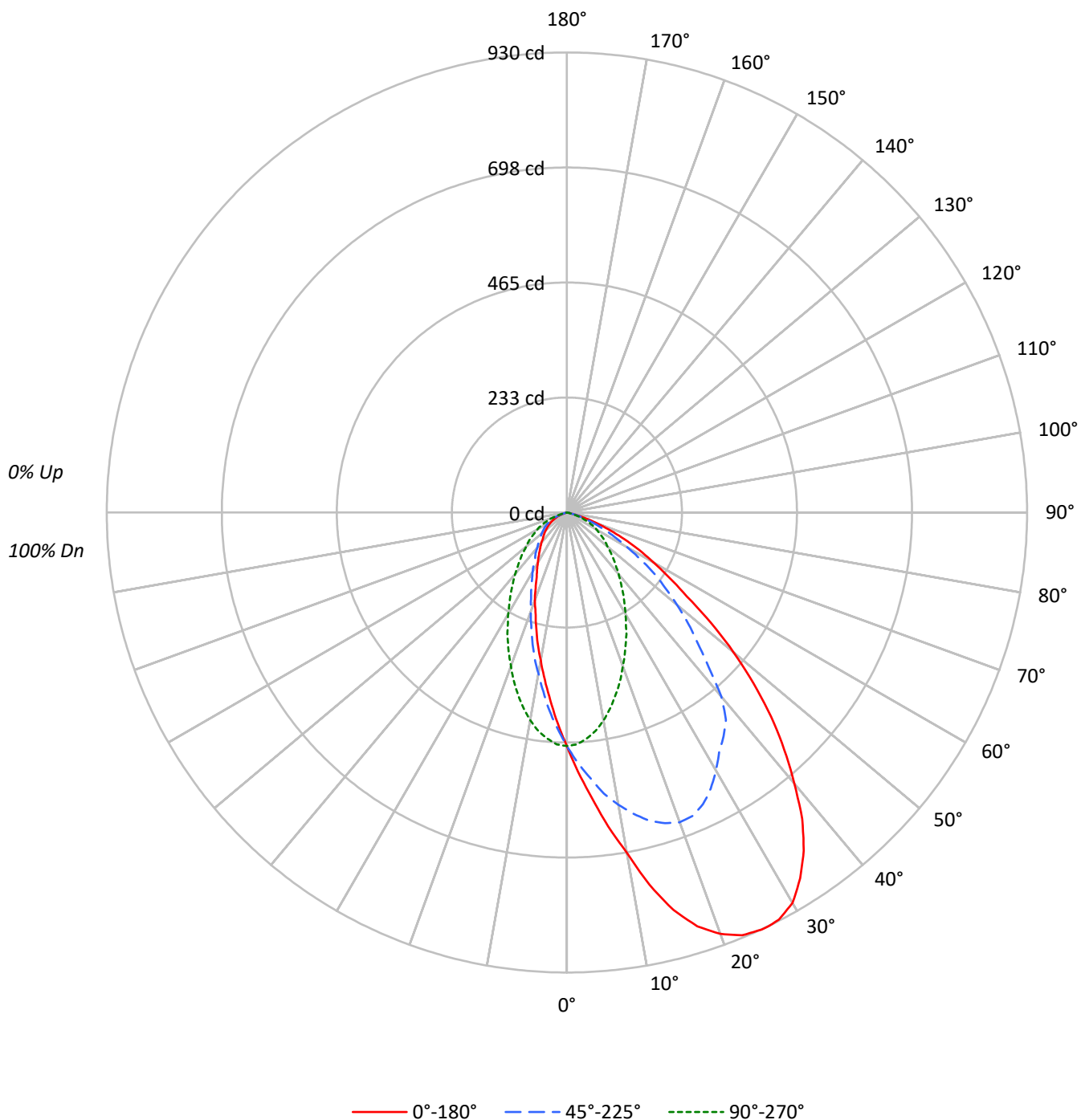
Lumens per Lamp: N/A
Luminaire Lumens: 940.0 lumens
Efficiency: N/A
Efficacy: 32.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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CATALOG NUMBER: P3A20R709050D010 E3LSWW1H

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
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	51	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°	103479	103479	103479	103479	103479
5°	127338	118534	100946	88620	83931
10°	155530	133576	94988	73613	67667
15°	188832	146471	86561	61135	54461
20°	211535	155530	77147	49774	44174
25°	225134	157388	68375	41277	34841
30°	230871	152555	60085	35094	29701
35°	223389	147739	52816	29982	25698
40°	204526	138889	46544	26707	22900
45°	181073	115764	41338	24809	20684
50°	150068	99135	36366	22754	19104
55°	113124	82578	33643	21409	17318
60°	88853	61969	30392	19867	15218
65°	66414	45660	26306	16604	12453
70°	42764	29043	18785	11989	6860
75°	18046	15843	9065	4490	2288
80°	3410	3410	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 181073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	4.8
10°-20°	128.8	13.7
20°-30°	188.4	20.0
30°-40°	205.3	21.8
40°-50°	177.6	18.9
50°-60°	119.0	12.7
60°-70°	61.5	6.5
70°-80°	14.5	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°	362.0	38.5
0°-40°	567.3	60.3
0°-60°	863.9	91.9
0°-90°	940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	940.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	578	538	459	403	381	59
15°	832	645	381	269	240	236
25°	930	650	283	171	144	427
35°	834	552	197	112	96	517
45°	584	373	133	80	67	447
55°	296	216	88	56	45	274
65°	128	88	51	32	24	129
75°	21	19	11	5	3	28
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°	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9
2.5°	525.2	522.6	522.6	517.2	511.9	506.6	498.6	490.6	482.6	474.6	469.2
5°	578.5	581.2	578.5	567.9	554.5	538.5	522.6	503.9	485.2	469.2	458.6
7.5°	639.9	639.9	631.9	618.5	599.9	573.2	546.5	514.6	485.2	458.6	445.2
10°	698.5	698.5	685.2	663.9	634.5	599.9	562.5	519.9	479.9	442.6	426.6
12.5°	770.5	767.8	751.8	717.2	674.5	623.9	573.2	519.9	471.9	426.6	405.2
15°	831.8	829.2	807.8	765.2	709.2	645.2	575.9	514.6	455.9	405.2	381.3
17.5°	877.1	871.8	847.8	802.5	738.5	658.5	578.5	503.9	437.2	381.3	357.3
20°	906.5	903.8	877.1	823.8	754.5	666.5	575.9	490.6	418.6	357.3	330.6
22.5°	925.1	919.8	893.1	834.5	754.5	663.9	565.2	471.9	394.6	333.3	306.6
25°	930.5	927.8	895.8	831.8	746.5	650.5	549.2	453.2	370.6	309.3	282.6
26°	930.5	927.8	895.8	829.2	741.2	642.5	541.2	445.2	362.6	298.6	274.6
27.5°	927.8	925.1	890.5	821.2	730.5	629.2	525.2	429.2	346.6	285.3	258.6
30°	911.8	906.5	871.8	802.5	706.5	602.5	498.6	405.2	322.6	261.3	237.3
32.5°	877.1	871.8	834.5	770.5	679.9	573.2	469.2	378.6	298.6	237.3	216.0
35°	834.5	829.2	791.8	730.5	642.5	551.9	437.2	349.3	271.9	218.6	197.3
37.5°	781.2	773.2	741.2	677.2	597.2	527.9	410.6	319.9	247.9	197.3	178.6
40°	714.5	711.8	682.5	623.9	543.9	485.2	394.6	319.9	226.6	178.6	162.6
42.5°	650.5	645.2	618.5	567.9	495.9	423.9	346.6	306.6	210.6	160.0	146.6
45°	583.9	578.5	554.5	511.9	445.2	373.3	373.3	263.9	181.3	146.6	133.3
47.5°	511.9	506.6	487.9	455.9	397.2	333.3	271.9	216.0	165.3	130.6	120.0
50°	439.9	442.6	426.6	394.6	349.3	290.6	234.6	181.3	141.3	117.3	106.6
52.5°	367.9	365.3	354.6	333.3	301.3	250.6	200.0	154.6	122.6	104.0	98.6
55°	295.9	298.6	293.3	279.9	253.3	216.0	168.0	133.3	109.3	93.3	88.0
57.5°	245.3	247.9	237.3	229.3	208.0	176.0	138.6	112.0	93.3	82.6	77.3
60°	202.6	205.3	197.3	186.6	170.6	141.3	112.0	93.3	82.6	74.7	69.3
62.5°	165.3	162.6	157.3	146.6	133.3	112.0	90.6	77.3	69.3	64.0	61.3
65°	128.0	128.0	122.6	114.6	104.0	88.0	72.0	64.0	58.7	53.3	50.7
67.5°	96.0	96.0	90.6	85.3	74.7	64.0	56.0	50.7	48.0	42.7	40.0
70°	66.7	66.7	64.0	61.3	53.3	45.3	42.7	37.3	34.7	32.0	29.3
72.5°	42.7	42.7	42.7	37.3	34.7	29.3	29.3	26.7	24.0	21.3	21.3
75°	21.3	24.0	21.3	21.3	18.7	18.7	16.0	16.0	13.3	13.3	10.7
77.5°	8.0	8.0	8.0	8.0	8.0	8.0	5.3	5.3	5.3	5.3	5.3
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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°	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9	471.9
2.5°	463.9	455.9	450.6	442.6	437.2	431.9	429.2	426.6	426.6	426.6
5°	450.6	437.2	423.9	410.6	402.6	394.6	386.6	383.9	381.3	381.3
7.5°	434.6	413.2	394.6	378.6	365.3	357.3	349.3	343.9	341.3	341.3
10°	413.2	386.6	365.3	343.9	330.6	319.9	314.6	306.6	306.6	303.9
12.5°	389.2	357.3	333.3	314.6	301.3	287.9	279.9	274.6	271.9	271.9
15°	362.6	330.6	303.9	282.6	269.3	255.9	247.9	242.6	239.9	239.9
17.5°	335.9	301.3	274.6	253.3	239.9	226.6	218.6	213.3	213.3	210.6
20°	309.3	274.6	247.9	226.6	213.3	202.6	194.6	189.3	186.6	189.3
22.5°	285.3	250.6	224.0	205.3	189.3	178.6	170.6	168.0	165.3	165.3
25°	258.6	226.6	202.6	184.0	170.6	160.0	152.0	149.3	146.6	144.0
26°	250.6	218.6	194.6	176.0	162.6	152.0	146.6	141.3	138.6	138.6
27.5°	239.9	205.3	184.0	165.3	152.0	144.0	136.0	133.3	130.6	130.6
30°	216.0	186.6	165.3	149.3	138.6	128.0	122.6	120.0	117.3	117.3
32.5°	197.3	168.0	149.3	136.0	125.3	117.3	112.0	106.6	106.6	106.6
35°	178.6	152.0	136.0	122.6	112.0	104.0	101.3	98.6	96.0	96.0
37.5°	162.6	138.6	122.6	112.0	104.0	96.0	90.6	88.0	88.0	88.0
40°	146.6	128.0	112.0	101.3	93.3	88.0	82.6	80.0	80.0	80.0
42.5°	133.3	114.6	104.0	93.3	85.3	80.0	77.3	74.7	72.0	72.0
45°	122.6	106.6	93.3	85.3	80.0	74.7	69.3	66.7	66.7	66.7
47.5°	109.3	98.6	85.3	77.3	72.0	66.7	64.0	61.3	61.3	61.3
50°	101.3	90.6	80.0	72.0	66.7	61.3	58.7	56.0	56.0	56.0
52.5°	90.6	82.6	74.7	66.7	61.3	56.0	53.3	50.7	50.7	50.7
55°	82.6	74.7	66.7	61.3	56.0	50.7	48.0	45.3	45.3	45.3
57.5°	74.7	66.7	61.3	56.0	50.7	48.0	42.7	42.7	40.0	40.0
60°	66.7	58.7	53.3	50.7	45.3	42.7	37.3	34.7	34.7	34.7
62.5°	56.0	53.3	48.0	42.7	37.3	34.7	32.0	29.3	29.3	29.3
65°	48.0	45.3	40.0	34.7	32.0	29.3	26.7	24.0	24.0	24.0
67.5°	40.0	34.7	32.0	29.3	26.7	24.0	21.3	18.7	16.0	18.7
70°	29.3	26.7	24.0	21.3	18.7	16.0	13.3	13.3	10.7	10.7
72.5°	18.7	16.0	16.0	13.3	10.7	10.7	8.0	8.0	5.3	5.3
75°	10.7	10.7	8.0	8.0	5.3	5.3	2.7	2.7	2.7	2.7
77.5°	5.3	2.7	2.7	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: SP1-2504-409-15

Test Date: 05/14/2025

Luminaire Tested: LD3A10R129050D010 E3D1H

Data in this report applies to families of products including LD3A

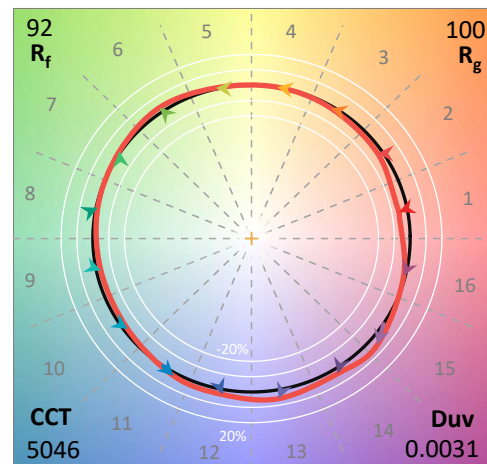
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-409-15
 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: **LD3A10R129050D010 E3D1H**
 Description: 3in Adjustable LED luminaire with, R12 optic, 5000K CCT AND, 90CRI LEDS, E3D1H TRIM

Spectral Parameters

CCT (K): 5046
 CIE u' : 0.2088
 CIE v' : 0.4872
 Duv: 0.0031
 CIE x: 0.3444
 CIE y: 0.3571
 CIE z: 0.2985
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 569
 Purity: 10.48811
 R_f: 91.5
 R_g: 100.4

CRI (Ra): 92.6
 R1: 93.5
 R2: 94.3
 R3: 95.0
 R4: 94.2
 R5: 93.6
 R6: 92.5
 R7: 93.4
 R8: 84.3
 R9: 54.8
 R10: 86.7
 R11: 94.1
 R12: 76.8
 R13: 93.9
 R14: 97.2
 R15: 89.2



Test Conditions

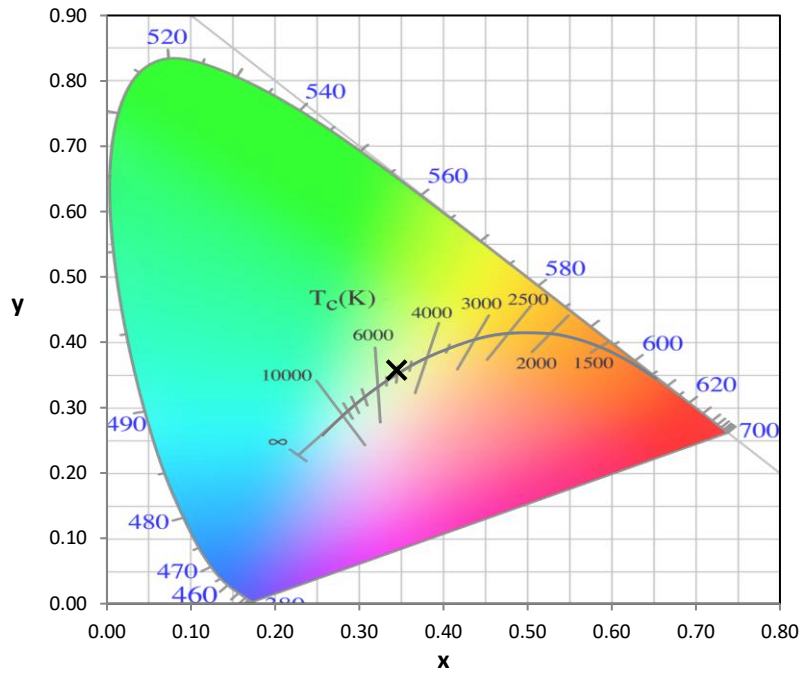
Stabilization Time: 48M
 Operation Time: 1H 48M
 Sphere Temperature (°C): 25.3

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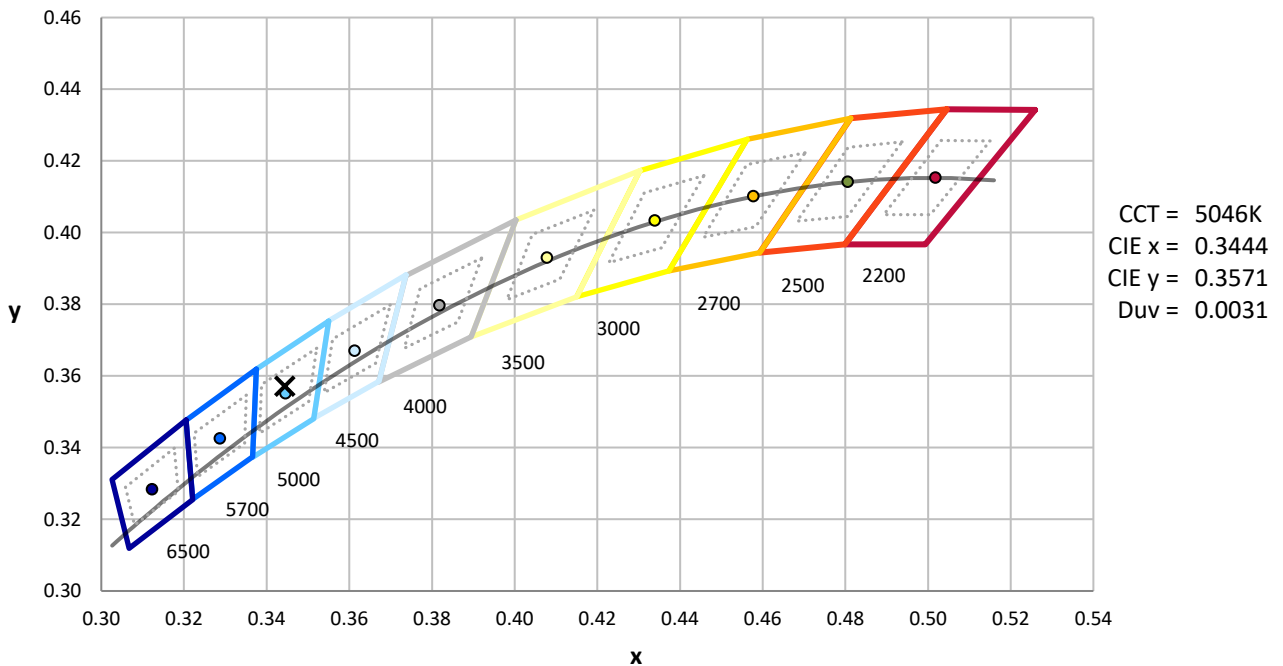
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	12/16/2024	6/16/2025
Power Meter	INXT2011004	1/21/2025	1/21/2026
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



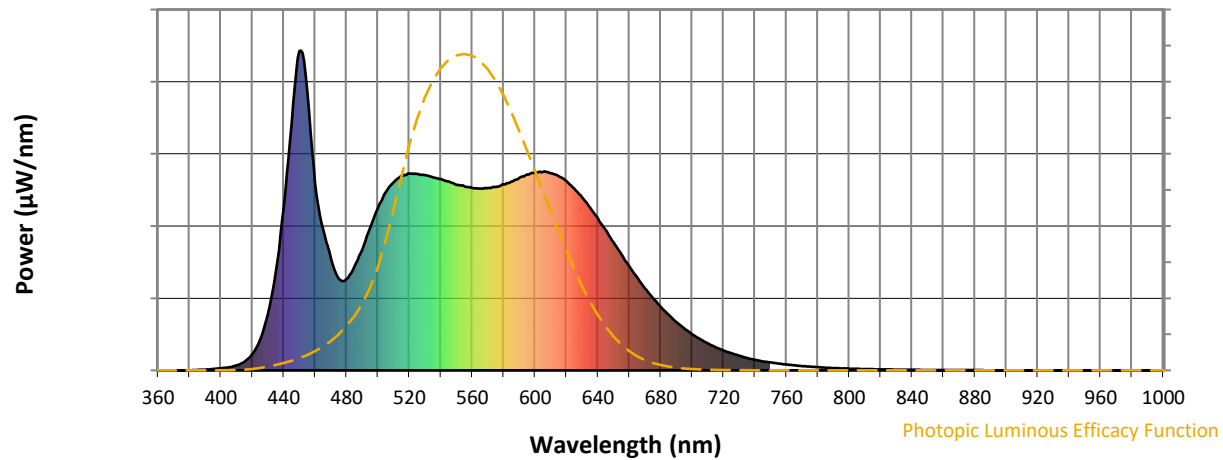
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

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Photopic Flux vs. Wavelength

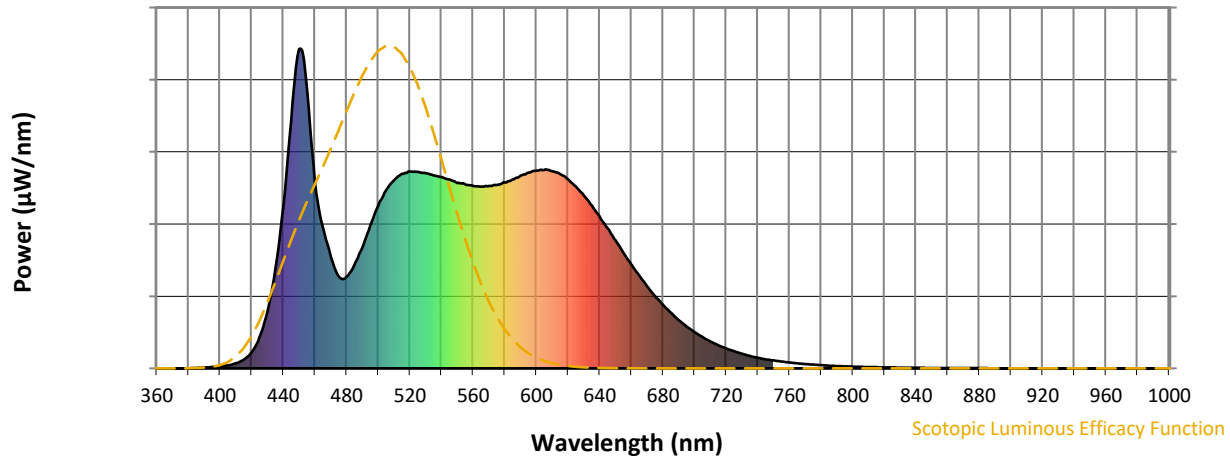


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



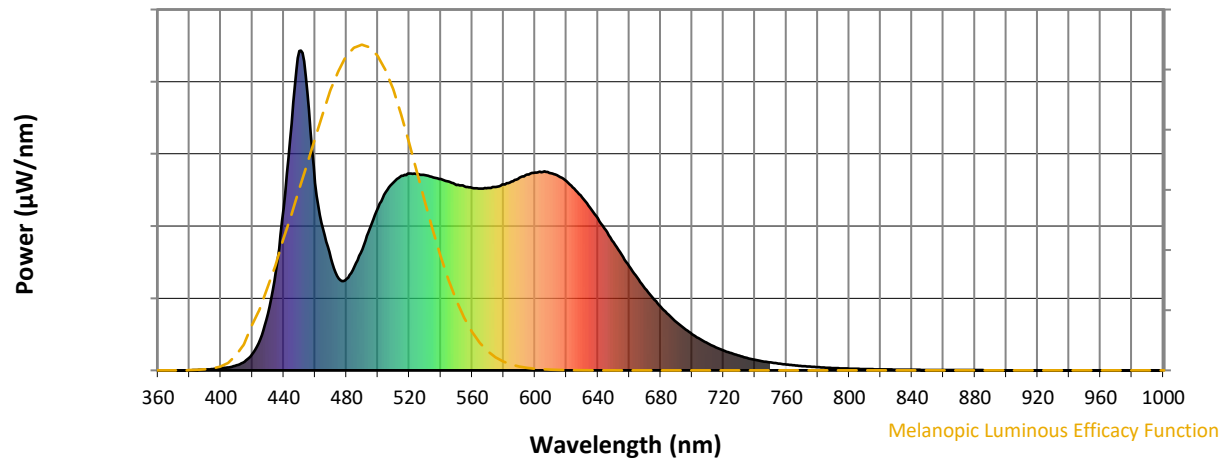
Scotopic Lumens: NR

S/P: 2.07

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	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.43

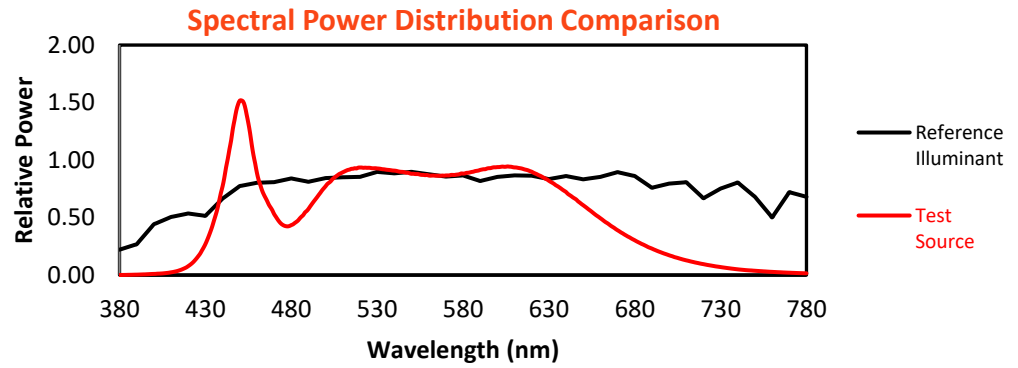
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	379	NR	620	592	NR	750	25	NR	880	1	NR
365	0	NR	495	445	NR	625	568	NR	755	21	NR	885	1	NR
370	0	NR	500	509	NR	630	540	NR	760	18	NR	890	0	NR
375	0	NR	505	557	NR	635	509	NR	765	16	NR	895	0	NR
380	0	NR	510	589	NR	640	476	NR	770	13	NR	900	0	NR
385	1	NR	515	608	NR	645	439	NR	775	12	NR	905	0	NR
390	2	NR	520	616	NR	650	400	NR	780	10	NR	910	0	NR
395	4	NR	525	614	NR	655	362	NR	785	8	NR	915	0	NR
400	7	NR	530	611	NR	660	325	NR	790	7	NR	920	0	NR
405	9	NR	535	604	NR	665	290	NR	795	6	NR	925	0	NR
410	16	NR	540	598	NR	670	257	NR	800	5	NR	930	0	NR
415	27	NR	545	591	NR	675	227	NR	805	5	NR	935	0	NR
420	51	NR	550	580	NR	680	199	NR	810	4	NR	940	0	NR
425	97	NR	555	575	NR	685	174	NR	815	4	NR	945	0	NR
430	177	NR	560	570	NR	690	152	NR	820	3	NR	950	0	NR
435	312	NR	565	569	NR	695	131	NR	825	3	NR	955	0	NR
440	507	NR	570	570	NR	700	113	NR	830	2	NR	960	0	NR
445	772	NR	575	573	NR	705	98	NR	835	2	NR	965	0	NR
450	998	NR	580	581	NR	710	84	NR	840	2	NR	970	0	NR
455	871	NR	585	590	NR	715	73	NR	845	2	NR	975	0	NR
460	586	NR	590	602	NR	720	63	NR	850	1	NR	980	0	NR
465	443	NR	595	612	NR	725	54	NR	855	1	NR	985	0	NR
470	350	NR	600	618	NR	730	46	NR	860	1	NR	990	0	NR
475	288	NR	605	620	NR	735	39	NR	865	1	NR	995	0	NR
480	286	NR	610	616	NR	740	33	NR	870	1	NR	1000	0	NR
485	325	NR	615	608	NR	745	28	NR	875	1	NR			

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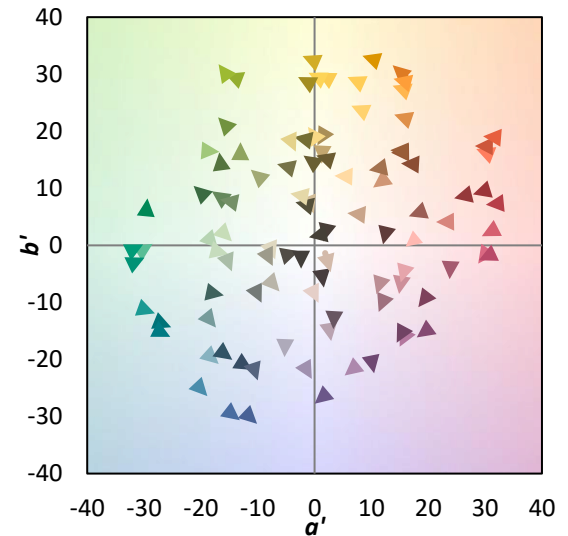
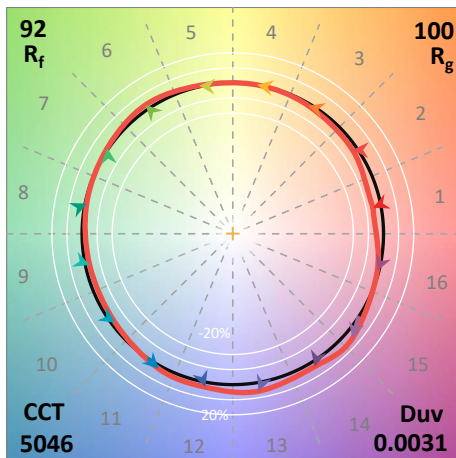
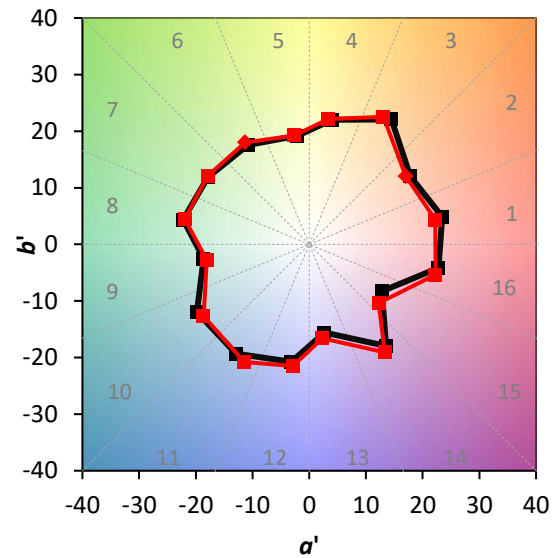
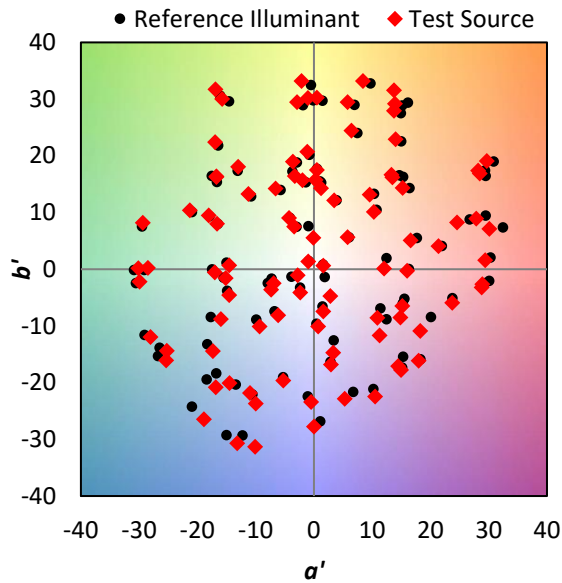
TM-30-18

Summary

$R_f = 91.5$
 $R_g = 100.4$
 $CIE R_a = 92.6$
 $R_g = 54.8$

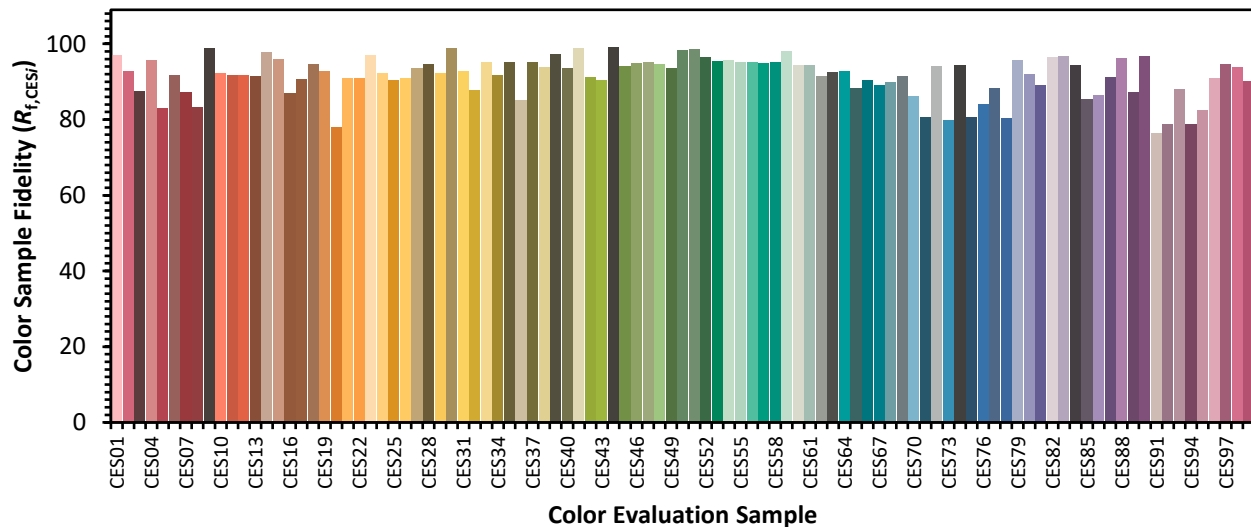


Color Vector Graphics

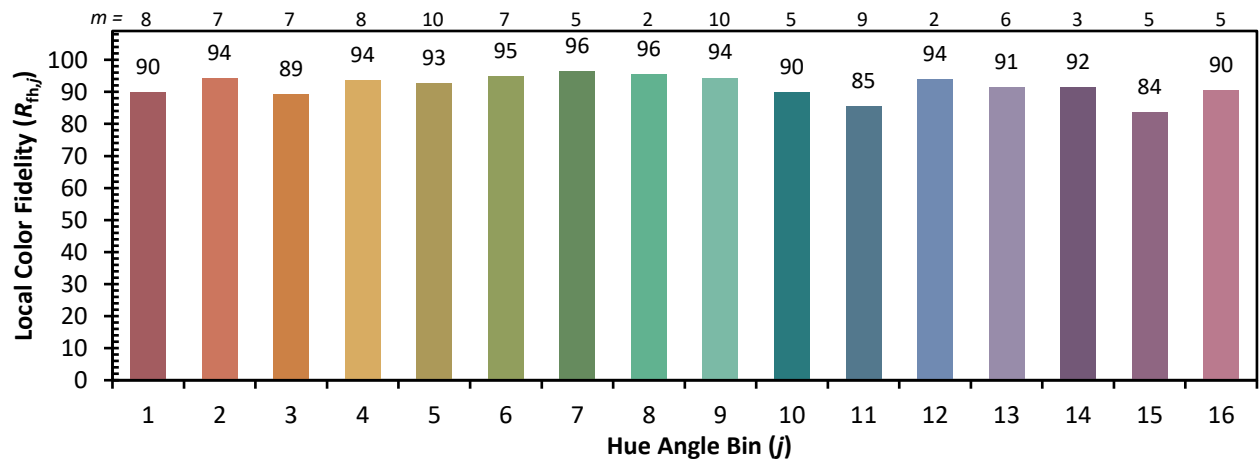
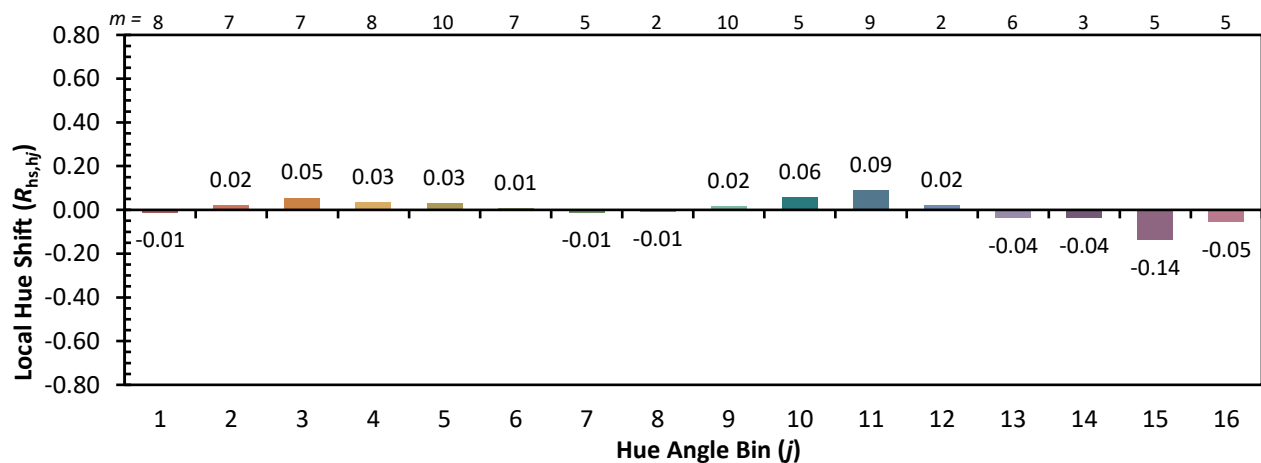
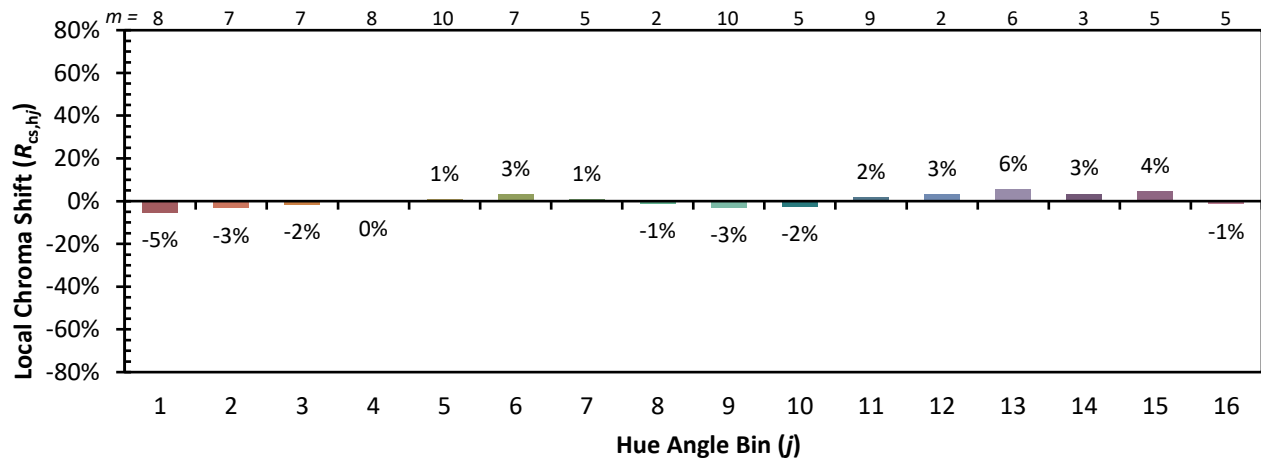


Individual Sample Fidelity Index ($R_{f,i}$)

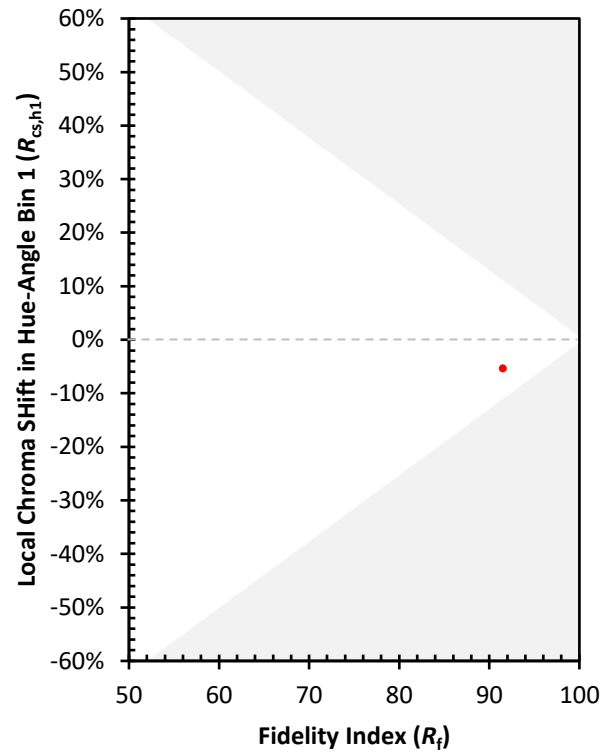
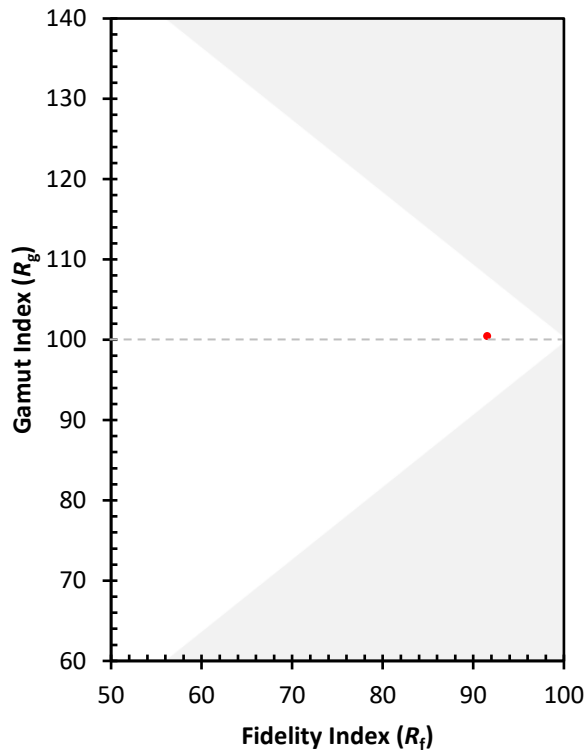
CES01 = 85	CES26 = 91	CES51 = 99	CES76 = 84
CES02 = 60	CES27 = 94	CES52 = 96	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 95	CES78 = 80
CES04 = 68	CES29 = 92	CES54 = 96	CES79 = 96
CES05 = 47	CES30 = 99	CES55 = 95	CES80 = 92
CES06 = 50	CES31 = 93	CES56 = 95	CES81 = 89
CES07 = 40	CES32 = 88	CES57 = 95	CES82 = 96
CES08 = 40	CES33 = 95	CES58 = 95	CES83 = 97
CES09 = 29	CES34 = 92	CES59 = 98	CES84 = 94
CES10 = 73	CES35 = 95	CES60 = 94	CES85 = 85
CES11 = 56	CES36 = 85	CES61 = 94	CES86 = 87
CES12 = 62	CES37 = 95	CES62 = 91	CES87 = 91
CES13 = 42	CES38 = 94	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 93	CES89 = 87
CES15 = 71	CES40 = 94	CES65 = 88	CES90 = 97
CES16 = 46	CES41 = 99	CES66 = 90	CES91 = 76
CES17 = 48	CES42 = 91	CES67 = 89	CES92 = 79
CES18 = 56	CES43 = 90	CES68 = 90	CES93 = 88
CES19 = 70	CES44 = 99	CES69 = 91	CES94 = 79
CES20 = 65	CES45 = 94	CES70 = 86	CES95 = 83
CES21 = 84	CES46 = 95	CES71 = 81	CES96 = 91
CES22 = 77	CES47 = 95	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 95	CES73 = 80	CES98 = 94
CES24 = 89	CES49 = 94	CES74 = 94	CES99 = 90
CES25 = 70	CES50 = 98	CES75 = 81	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)