

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: PrentaLux

Report Number: P1057402

Luminaire Tested: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057402
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1500 LUMENS, MEDIUM OPTIC (23-DEGREES)
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

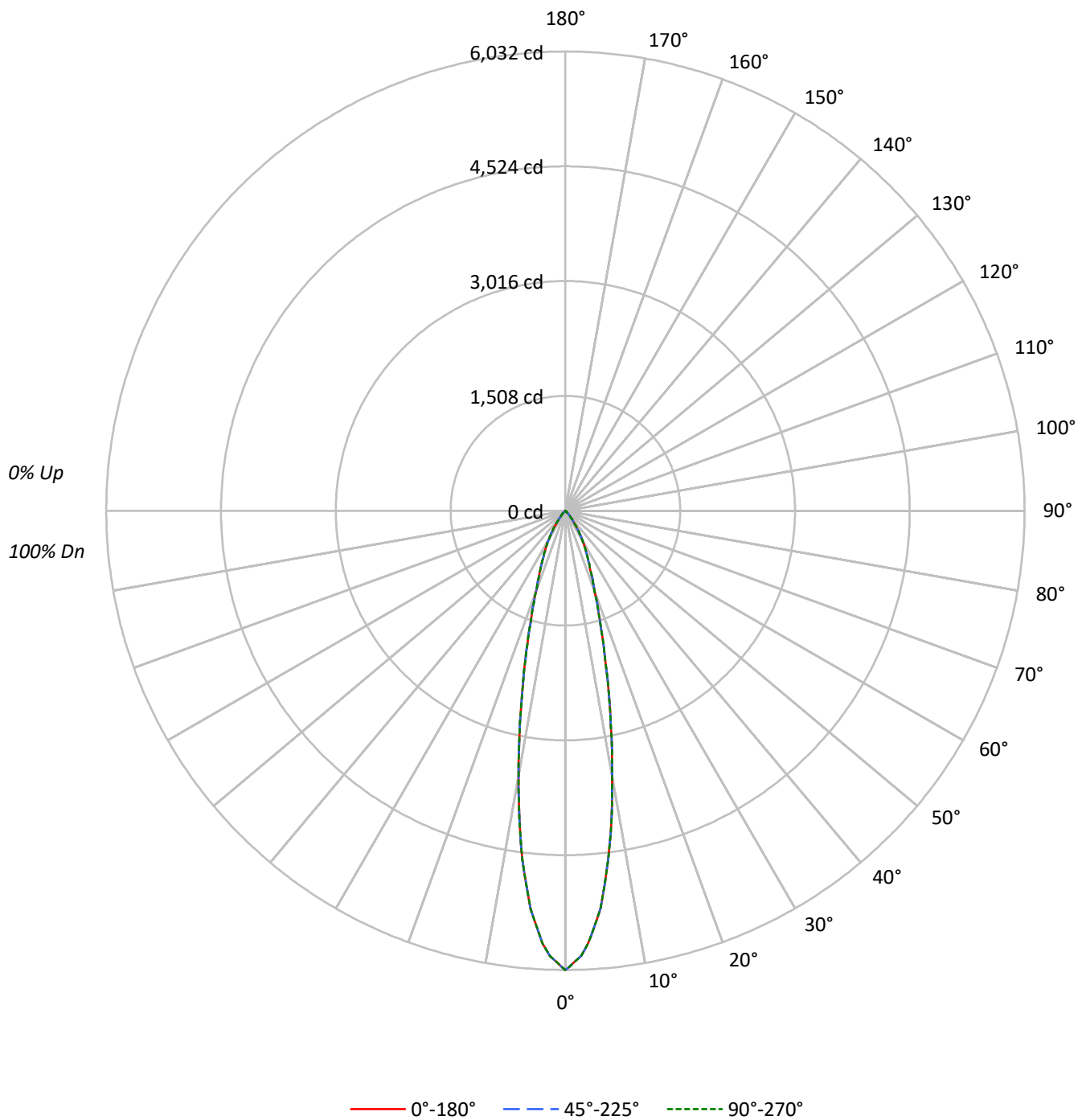
Lumens per Lamp: N/A
Luminaire Lumens: 1521.4 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): 120
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: P1057402

CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057402

CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93
4	102	96	92	89	101	95	91	88	93	90	87		91	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	83	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	74		79	76	73		79
9	86	79	74	71	85	78	74	71	78	74	71		77	73	71		76
10	84	76	72	69	83	76	72	69	75	71	68		74	71	68		74

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3887397	3887397	3887397
5°	3395868	3395868	3395868
10°	2316372	2316372	2316372
15°	1349916	1349916	1349916
20°	769168	769168	769168
25°	497798	497798	497798
30°	329269	329269	329269
35°	172915	172915	172915
40°	67130	67130	67130
45°	21690	21690	21690
50°	11228	11228	11228
55°	7865	7865	7865
60°	5413	5413	5413
65°	4270	4270	4270
70°	2638	2638	2638
75°	3486	3486	3486
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21690 cd/sqm

TEST NUMBER: P1057402

CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	29.2
10°-20°	569.8	37.4
20°-30°	328.9	21.6
30°-40°	143.9	9.5
40°-50°	24.4	1.6
50°-60°	6.4	0.4
60°-70°	3.1	0.2
70°-80°	0.9	0.1
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°	1342.6	88.3
0°-40°	1486.5	97.7
0°-60°	1517.4	99.7
0°-90°	1521.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6032	6032	6032	6032	6032	
5°	5250	5250	5250	5250	5250	444
15°	2023	2023	2023	2023	2023	570
25°	700	700	700	700	700	329
35°	220	220	220	220	220	144
45°	24	24	24	24	24	24
55°	7	7	7	7	7	6
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1057402

CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6032.4	6032.4	6032.4	6032.4	6032.4
1°	5942.2	5942.2	5942.2	5942.2	5942.2
2°	5852.0	5852.0	5852.0	5852.0	5852.0
3°	5695.5	5695.5	5695.5	5695.5	5695.5
4°	5472.5	5472.5	5472.5	5472.5	5472.5
5°	5249.6	5249.6	5249.6	5249.6	5249.6
6°	4934.3	4934.3	4934.3	4934.3	4934.3
7°	4618.9	4618.9	4618.9	4618.9	4618.9
8°	4277.0	4277.0	4277.0	4277.0	4277.0
9°	3908.4	3908.4	3908.4	3908.4	3908.4
10°	3539.9	3539.9	3539.9	3539.9	3539.9
11°	3204.9	3204.9	3204.9	3204.9	3204.9
12°	2870.0	2870.0	2870.0	2870.0	2870.0
13°	2566.7	2566.7	2566.7	2566.7	2566.7
14°	2295.0	2295.0	2295.0	2295.0	2295.0
15°	2023.4	2023.4	2023.4	2023.4	2023.4
16°	1812.8	1812.8	1812.8	1812.8	1812.8
17°	1602.2	1602.2	1602.2	1602.2	1602.2
18°	1421.8	1421.8	1421.8	1421.8	1421.8
19°	1271.7	1271.7	1271.7	1271.7	1271.7
20°	1121.6	1121.6	1121.6	1121.6	1121.6
21°	1022.5	1022.5	1022.5	1022.5	1022.5
22°	923.3	923.3	923.3	923.3	923.3
23°	839.0	839.0	839.0	839.0	839.0
24°	769.6	769.6	769.6	769.6	769.6
25°	700.1	700.1	700.1	700.1	700.1
26°	646.4	646.4	646.4	646.4	646.4
27°	592.6	592.6	592.6	592.6	592.6
28°	541.1	541.1	541.1	541.1	541.1
29°	491.8	491.8	491.8	491.8	491.8
30°	442.5	442.5	442.5	442.5	442.5
31°	396.0	396.0	396.0	396.0	396.0
32°	349.5	349.5	349.5	349.5	349.5
33°	305.0	305.0	305.0	305.0	305.0
34°	262.4	262.4	262.4	262.4	262.4
35°	219.8	219.8	219.8	219.8	219.8
36°	187.4	187.4	187.4	187.4	187.4
37°	154.9	154.9	154.9	154.9	154.9
38°	126.9	126.9	126.9	126.9	126.9
39°	103.3	103.3	103.3	103.3	103.3
40°	79.8	79.8	79.8	79.8	79.8
41°	65.8	65.8	65.8	65.8	65.8
42°	51.8	51.8	51.8	51.8	51.8
43°	40.6	40.6	40.6	40.6	40.6
44°	32.2	32.2	32.2	32.2	32.2

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CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	23.8	23.8	23.8	23.8	23.8
46°	20.4	20.4	20.4	20.4	20.4
47°	17.1	17.1	17.1	17.1	17.1
48°	14.6	14.6	14.6	14.6	14.6
49°	12.9	12.9	12.9	12.9	12.9
50°	11.2	11.2	11.2	11.2	11.2
51°	10.1	10.1	10.1	10.1	10.1
52°	9.0	9.0	9.0	9.0	9.0
53°	8.1	8.1	8.1	8.1	8.1
54°	7.6	7.6	7.6	7.6	7.6
55°	7.0	7.0	7.0	7.0	7.0
56°	6.4	6.4	6.4	6.4	6.4
57°	5.9	5.9	5.9	5.9	5.9
58°	5.3	5.3	5.3	5.3	5.3
59°	4.8	4.8	4.8	4.8	4.8
60°	4.2	4.2	4.2	4.2	4.2
61°	4.2	4.2	4.2	4.2	4.2
62°	4.2	4.2	4.2	4.2	4.2
63°	3.9	3.9	3.9	3.9	3.9
64°	3.4	3.4	3.4	3.4	3.4
65°	2.8	2.8	2.8	2.8	2.8
66°	2.8	2.8	2.8	2.8	2.8
67°	2.8	2.8	2.8	2.8	2.8
68°	2.5	2.5	2.5	2.5	2.5
69°	2.0	2.0	2.0	2.0	2.0
70°	1.4	1.4	1.4	1.4	1.4
71°	1.4	1.4	1.4	1.4	1.4
72°	1.4	1.4	1.4	1.4	1.4
73°	1.4	1.4	1.4	1.4	1.4
74°	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4
76°	0.8	0.8	0.8	0.8	0.8
77°	0.3	0.3	0.3	0.3	0.3
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1057402

CATALOG NUMBER: PRLX-CYL2W-DR-X-927-15L-MD-U-S-X-X-BLAK

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.39	7.30	6.76	7.61	7.93	6.39	7.30	6.76	7.61	7.93
	3H	7.12	7.92	7.51	8.25	8.62	7.12	7.92	7.51	8.25	8.62
	4H	7.38	8.12	7.79	8.47	8.86	7.38	8.12	7.79	8.47	8.86
	6H	7.27	7.94	7.69	8.32	8.71	7.27	7.94	7.69	8.32	8.71
	8H	7.21	7.84	7.65	8.23	8.64	7.21	7.84	7.65	8.23	8.64
	12H	7.14	7.74	7.58	8.13	8.56	7.14	7.74	7.58	8.13	8.56
4H	2H	6.51	7.25	6.92	7.60	7.99	6.51	7.25	6.92	7.60	7.99
	3H	7.31	7.91	7.72	8.32	8.72	7.31	7.91	7.72	8.32	8.72
	4H	7.67	8.20	8.11	8.63	9.08	7.67	8.20	8.11	8.63	9.08
	6H	7.55	8.01	8.03	8.46	8.94	7.55	8.01	8.03	8.46	8.94
	8H	7.48	7.90	7.96	8.35	8.83	7.48	7.90	7.96	8.35	8.83
	12H	7.41	7.77	7.90	8.26	8.74	7.41	7.77	7.90	8.26	8.74
8H	4H	7.59	8.02	8.07	8.47	8.94	7.59	8.02	8.07	8.47	8.94
	6H	7.47	7.80	7.98	8.30	8.79	7.47	7.80	7.98	8.30	8.79
	8H	7.39	7.68	7.93	8.21	8.71	7.39	7.68	7.93	8.21	8.71
	12H	7.33	7.58	7.86	8.08	8.66	7.33	7.58	7.86	8.08	8.66
12H	4H	7.53	7.89	8.02	8.38	8.86	7.53	7.89	8.02	8.38	8.86
	6H	7.39	7.68	7.93	8.21	8.71	7.39	7.68	7.93	8.21	8.71
	8H	7.33	7.58	7.86	8.08	8.66	7.33	7.58	7.86	8.08	8.66

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

Report Prepared for

Cooper Lighting Solutions

PrentaLux 3D Printing

Report Number: SP1-2504-407-1

Test Date: 07/16/2025

Luminaire Tested: PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

Data in this report applies to families of products including PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK

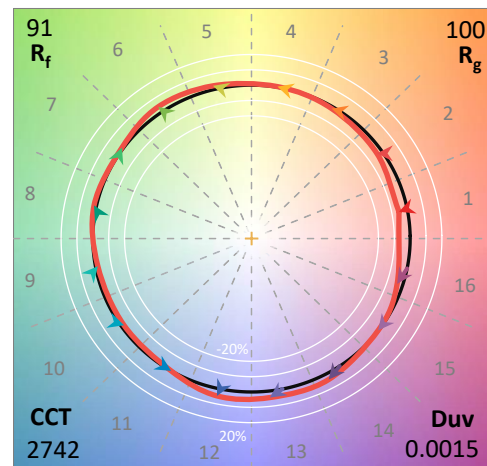
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2504-407-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/30/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: PrentaLux 3D Printing
 Catalog Number: **PRLX-CYL2-X-927-10L-FL-U-S-X-X-BLAK**
 Description: PrentaLux 2-INCH CYLINDER, BLACK TRIM, FLOOD OPTIC, 1000 LUMENS, 2700K

Spectral Parameters

CCT (K): 2742
 CIE u' : 0.2602
 CIE v' : 0.5287
 Duv: 0.0015
 CIE x: 0.4591
 CIE y: 0.4146
 CIE z: 0.1264
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 583
 Purity: 62.24215
 R_f: 91.5
 R_g: 100.2

CRI (Ra): 93.2
 R1: 94.5
 R2: 95.6
 R3: 95.5
 R4: 95.6
 R5: 93.8
 R6: 96.5
 R7: 92.3
 R8: 81.6
 R9: 55.9
 R10: 87.9
 R11: 97.0
 R12: 84.0
 R13: 94.5
 R14: 96.0
 R15: 88.9



Test Conditions

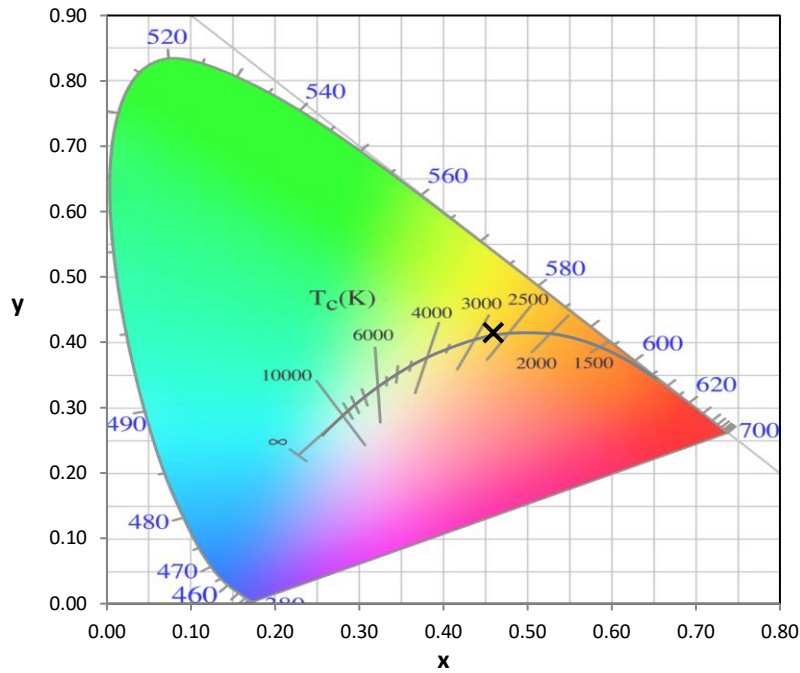
Stabilization Time: 41M
 Operation Time: 1H 41M
 Sphere Temperature (°C): 24.0

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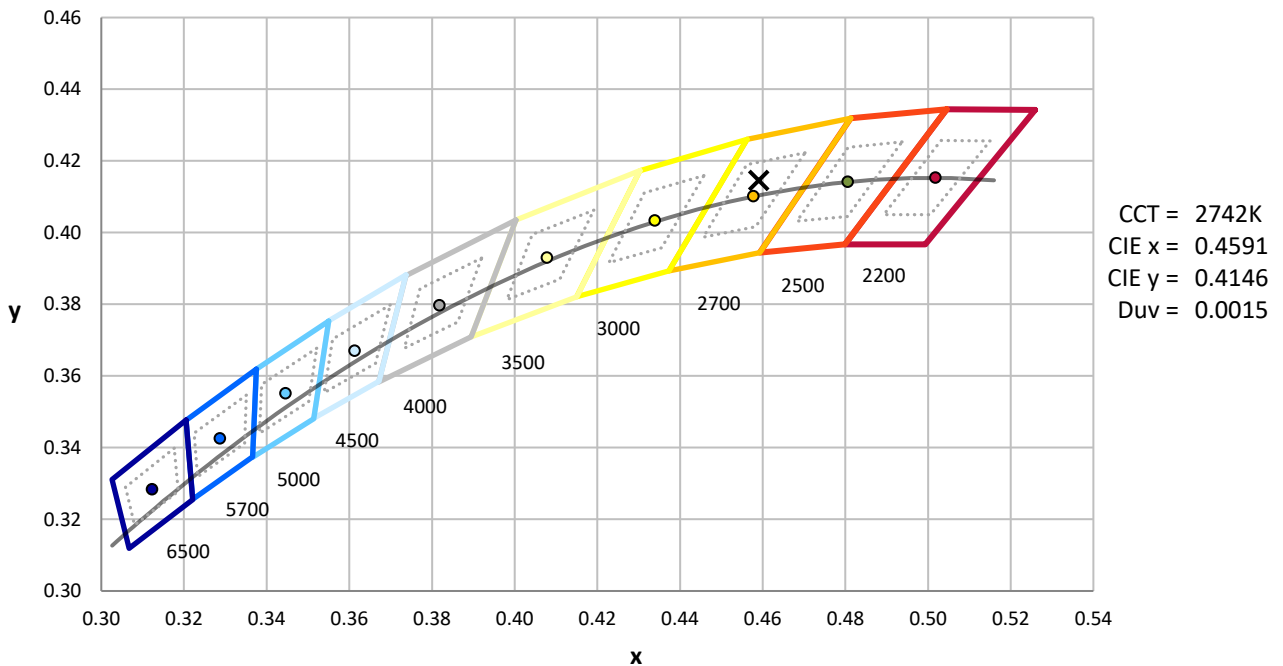
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

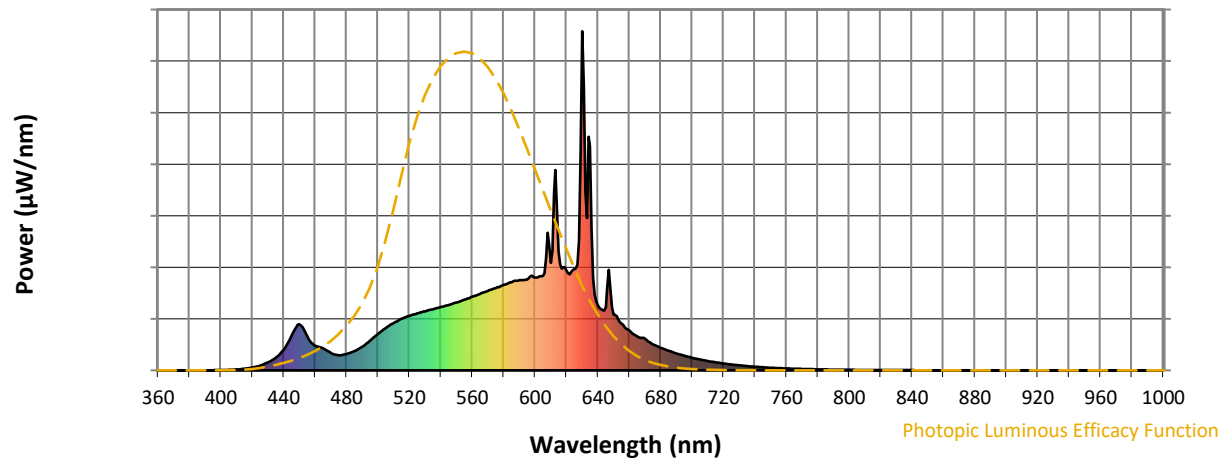


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength

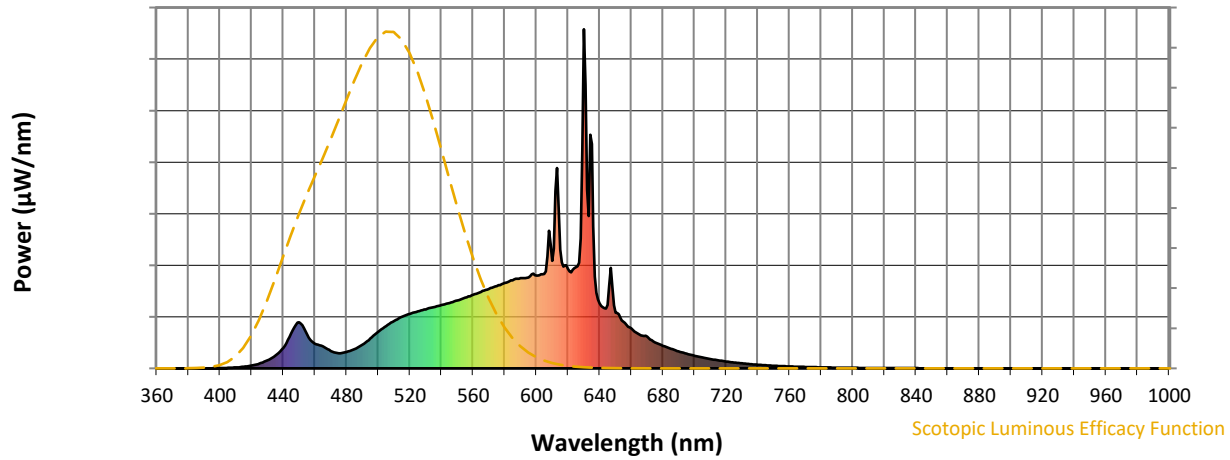


Photopic Lumens: NR

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	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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Scotopic Flux vs. Wavelength



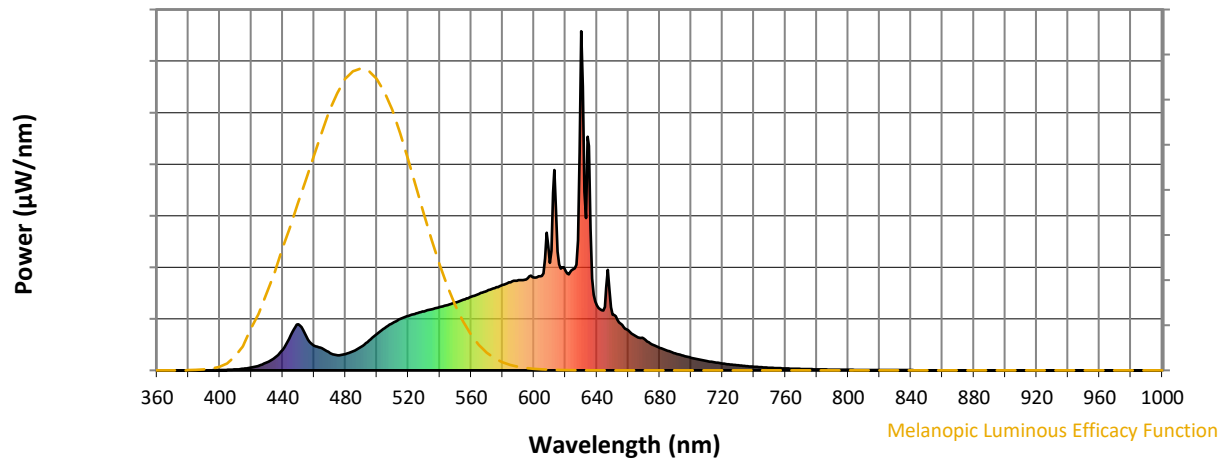
Scotopic Lumens: NR

S/P: 1.28

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	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

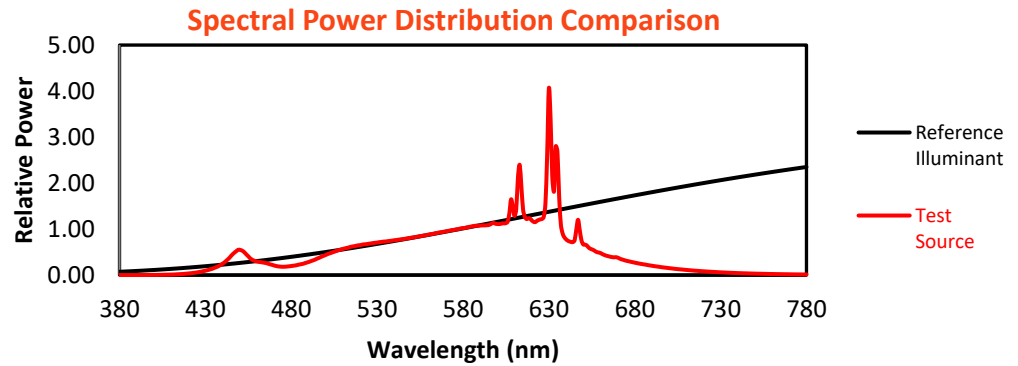
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	70	NR	620	293	NR	750	8	NR	880	0	NR
365	0	NR	495	88	NR	625	299	NR	755	7	NR	885	0	NR
370	0	NR	500	108	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	125	NR	635	661	NR	765	5	NR	895	0	NR
380	0	NR	510	140	NR	640	192	NR	770	4	NR	900	0	NR
385	0	NR	515	152	NR	645	187	NR	775	4	NR	905	0	NR
390	0	NR	520	160	NR	650	164	NR	780	3	NR	910	0	NR
395	0	NR	525	168	NR	655	138	NR	785	3	NR	915	0	NR
400	1	NR	530	174	NR	660	118	NR	790	2	NR	920	0	NR
405	2	NR	535	180	NR	665	100	NR	795	2	NR	925	0	NR
410	3	NR	540	187	NR	670	94	NR	800	2	NR	930	0	NR
415	5	NR	545	193	NR	675	77	NR	805	1	NR	935	0	NR
420	9	NR	550	200	NR	680	67	NR	810	1	NR	940	0	NR
425	14	NR	555	208	NR	685	58	NR	815	1	NR	945	0	NR
430	23	NR	560	217	NR	690	50	NR	820	1	NR	950	0	NR
435	38	NR	565	226	NR	695	43	NR	825	1	NR	955	0	NR
440	61	NR	570	234	NR	700	37	NR	830	1	NR	960	0	NR
445	103	NR	575	243	NR	705	32	NR	835	1	NR	965	0	NR
450	135	NR	580	252	NR	710	28	NR	840	1	NR	970	0	NR
455	100	NR	585	260	NR	715	23	NR	845	0	NR	975	0	NR
460	72	NR	590	266	NR	720	20	NR	850	0	NR	980	0	NR
465	65	NR	595	268	NR	725	17	NR	855	0	NR	985	0	NR
470	51	NR	600	274	NR	730	15	NR	860	0	NR	990	0	NR
475	45	NR	605	278	NR	735	13	NR	865	0	NR	995	0	NR
480	48	NR	610	317	NR	740	11	NR	870	0	NR	1000	0	NR
485	57	NR	615	350	NR	745	9	NR	875	0	NR			

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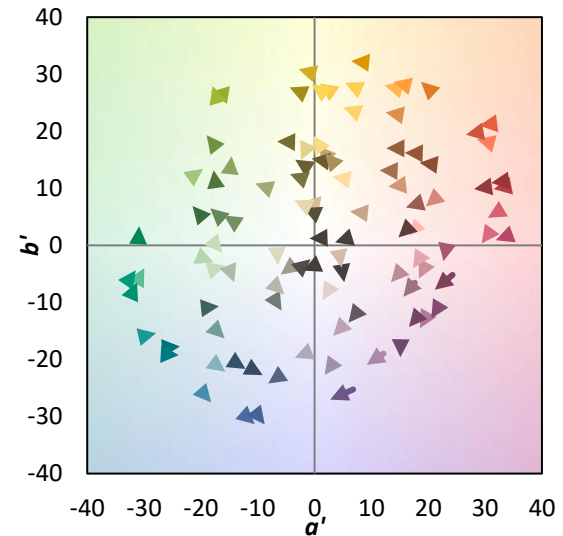
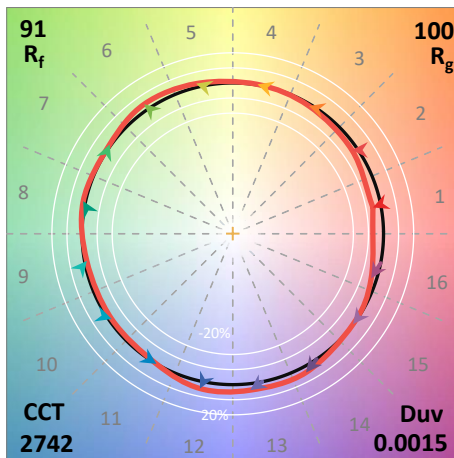
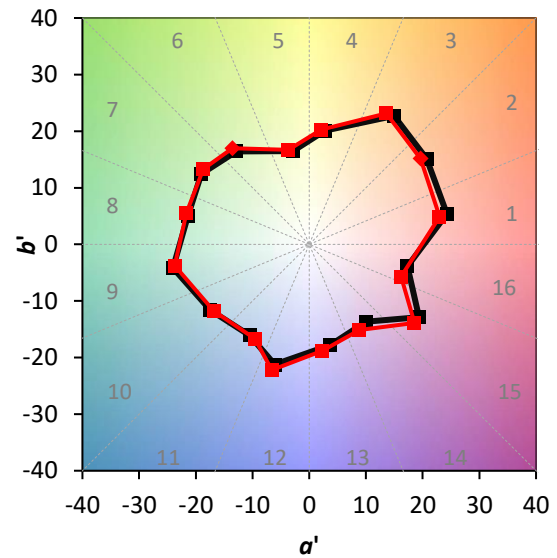
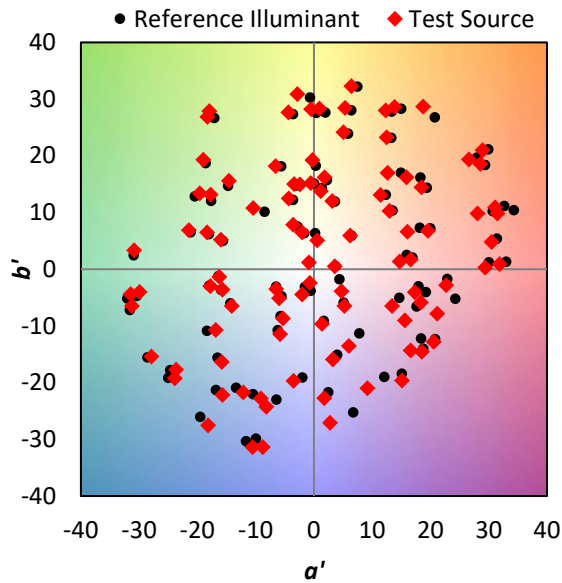
TM-30-18

Summary

$R_f = 91.5$
 $R_g = 100.2$
 $CIE\ R_a = 93.2$
 $R_9 = 55.9$

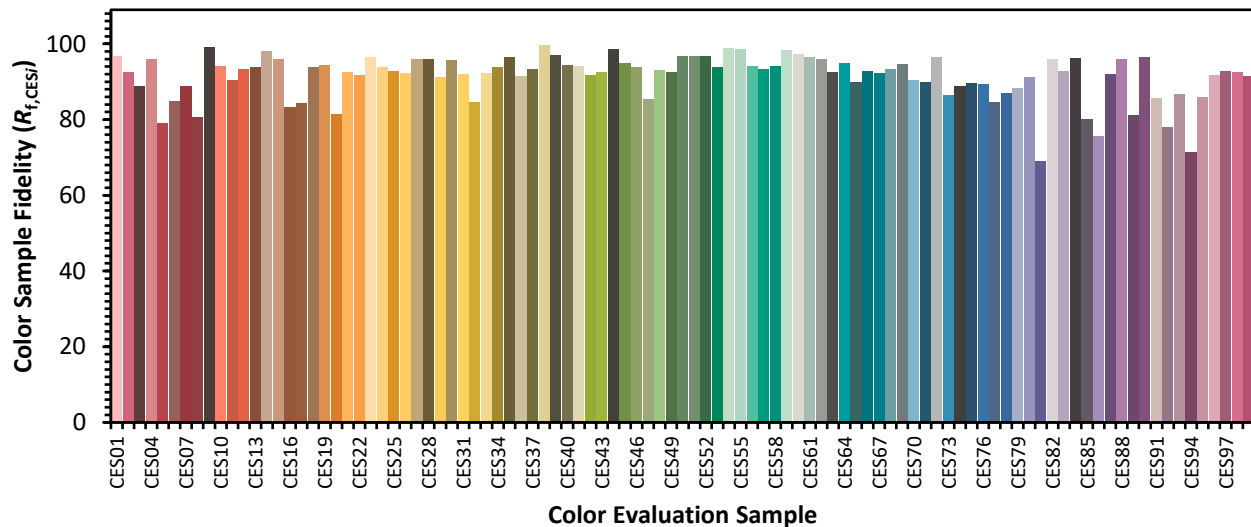


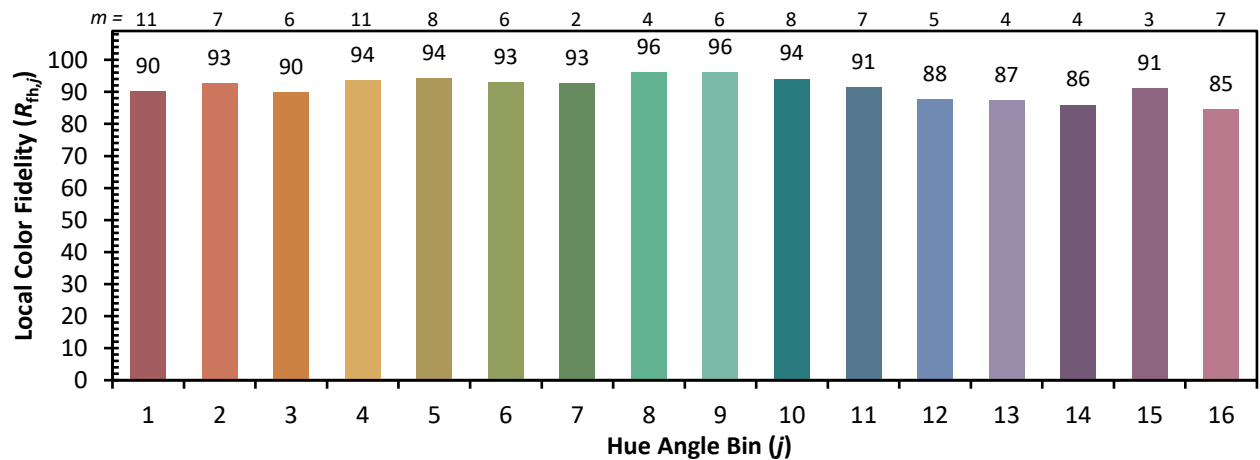
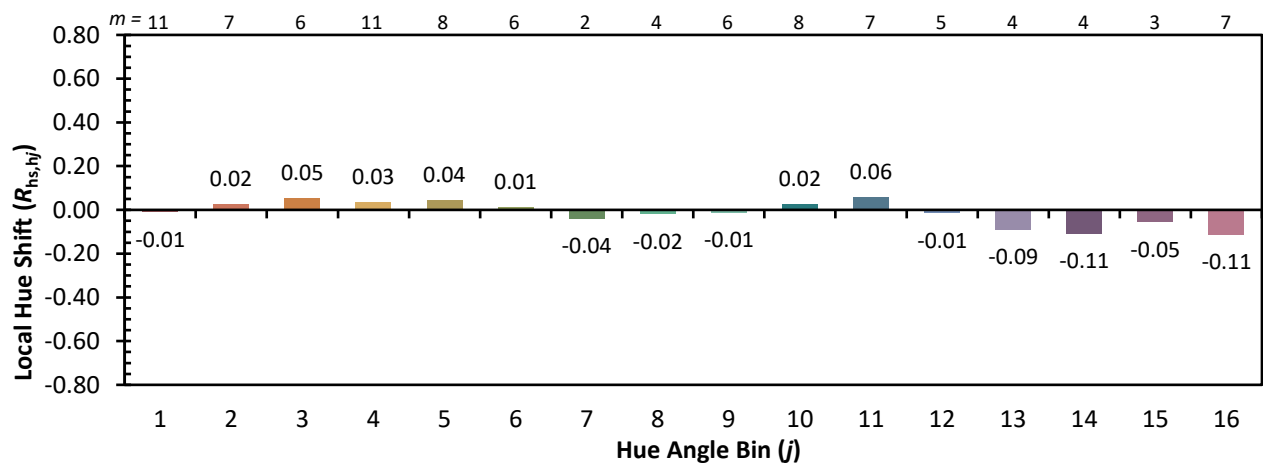
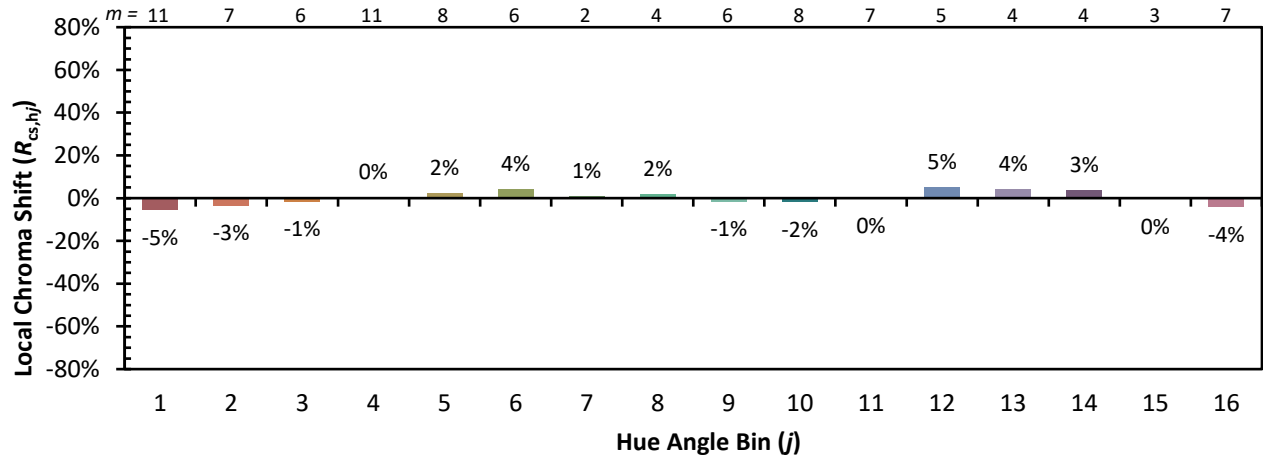
Color Vector Graphics



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

CES01 = 86	CES26 = 92	CES51 = 97	CES76 = 89
CES02 = 64	CES27 = 96	CES52 = 97	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 94	CES78 = 87
CES04 = 70	CES29 = 91	CES54 = 99	CES79 = 88
CES05 = 51	CES30 = 96	CES55 = 99	CES80 = 91
CES06 = 51	CES31 = 92	CES56 = 94	CES81 = 69
CES07 = 44	CES32 = 85	CES57 = 93	CES82 = 96
CES08 = 43	CES33 = 92	CES58 = 94	CES83 = 93
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 96
CES10 = 77	CES35 = 97	CES60 = 97	CES85 = 80
CES11 = 59	CES36 = 91	CES61 = 97	CES86 = 76
CES12 = 66	CES37 = 93	CES62 = 96	CES87 = 92
CES13 = 44	CES38 = 100	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 95	CES89 = 81
CES15 = 72	CES40 = 94	CES65 = 90	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 93	CES91 = 86
CES17 = 50	CES42 = 92	CES67 = 92	CES92 = 78
CES18 = 57	CES43 = 92	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 95	CES94 = 71
CES20 = 68	CES45 = 95	CES70 = 90	CES95 = 86
CES21 = 87	CES46 = 94	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
CES23 = 92	CES48 = 93	CES73 = 86	CES98 = 92
CES24 = 91	CES49 = 93	CES74 = 89	CES99 = 91
CES25 = 72	CES50 = 97	CES75 = 90	

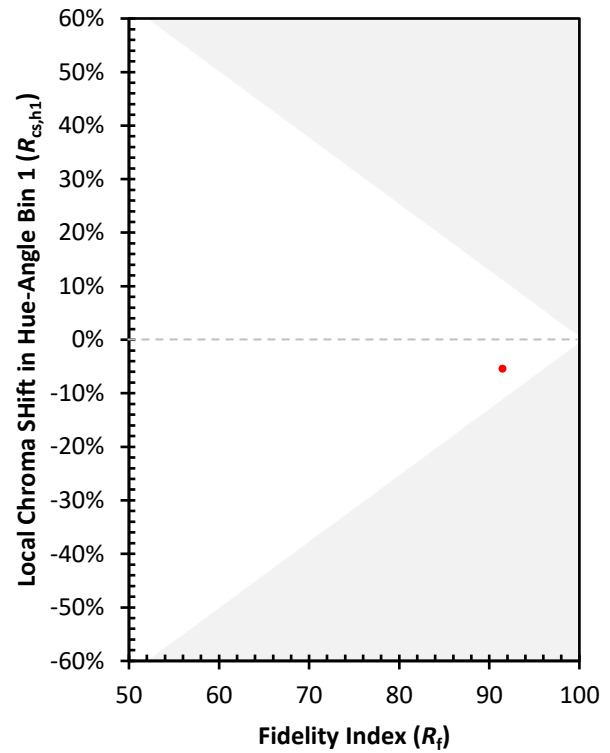
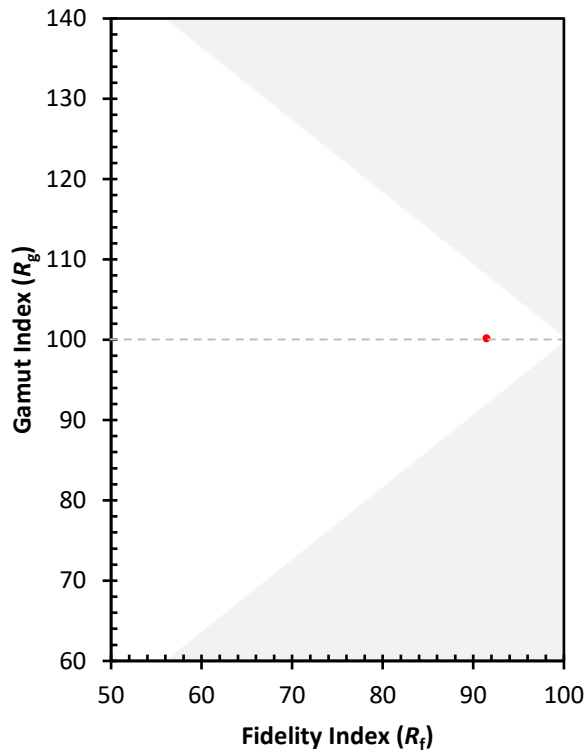


Color Rendition by Hue-Angle Bin


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Measure Comparisons



(END OF REPORT)