

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: CORELITE

Report Number: P1215518

Luminaire Tested: 24-ID2-100-CFR1-L935-U

Issue Date: 12/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1215518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2508-510-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24-ID2-100-CFR1-L935-U
Description: 2X4 IN DEPTH TROFFER WITH 1INCH CUBE REGRESS LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

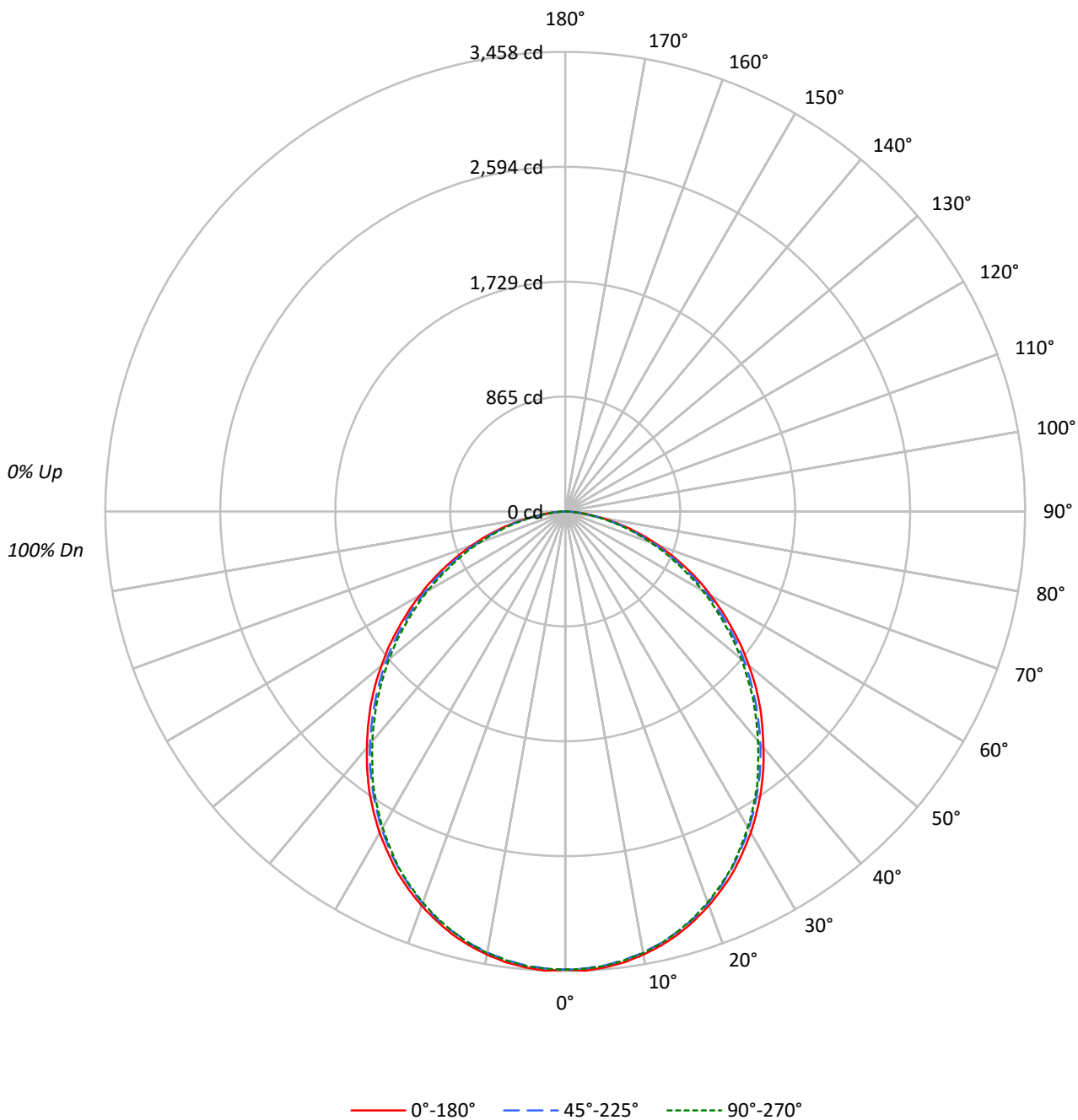
Lumens per Lamp: N/A
Luminaire Lumens: 8675.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.8
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: P1215518
CATALOG NUMBER: 24-ID2-100-CFR1-L935-U

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	0
RW	70	50	30	10	70	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	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4637	4637	4637
5°	4650	4630	4634
10°	4626	4604	4609
15°	4585	4558	4557
20°	4519	4492	4484
25°	4441	4399	4392
30°	4337	4287	4267
35°	4217	4154	4133
40°	4074	4010	3962
45°	3938	3847	3800
50°	3771	3682	3620
55°	3589	3489	3411
60°	3397	3288	3209
65°	3192	3060	2958
70°	2937	2802	2690
75°	2619	2465	2378
80°	2140	2021	1919
85°	1501	1463	1354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3938 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	3.8
10°-20°	922.9	10.6
20°-30°	1365.2	15.7
30°-40°	1584.0	18.3
40°-50°	1563.5	18.0
50°-60°	1334.1	15.4
60°-70°	956.5	11.0
70°-80°	506.8	5.8
80°-90°	116.4	1.3
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°	2613.7	30.1
0°-40°	4197.7	48.4
0°-60°	7095.3	81.8
0°-90°	8675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3447	3447	3447	3447	3447	
5°	3443	3432	3428	3423	3431	327
15°	3291	3278	3272	3266	3271	927
25°	2992	2977	2963	2954	2958	1376
35°	2567	2552	2529	2516	2516	1604
45°	2069	2049	2022	2003	1997	1594
55°	1530	1514	1488	1466	1454	1370
65°	1003	988	961	944	929	992
75°	504	491	474	462	458	534
85°	97	100	95	90	88	122
90°	0	0	0	0	0	



TEST NUMBER: P1215518
 CATALOG NUMBER: 24-ID2-100-CFR1-L935-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3446.7	3446.7	3446.7	3446.7	3446.7
2.5°	3458.5	3445.5	3440.8	3437.2	3444.3
5°	3443.1	3432.5	3427.7	3423.0	3431.3
7.5°	3420.6	3408.8	3402.8	3399.3	3406.4
10°	3386.2	3375.6	3369.6	3366.1	3373.2
12.5°	3343.6	3332.9	3325.8	3322.2	3329.3
15°	3291.4	3278.4	3272.5	3266.5	3271.3
17.5°	3227.4	3217.9	3210.8	3201.3	3206.1
20°	3156.3	3144.4	3137.3	3129.0	3131.4
22.5°	3076.9	3067.4	3054.4	3047.3	3047.3
25°	2991.5	2977.3	2963.1	2953.6	2958.4
27.5°	2890.8	2879.0	2863.5	2850.5	2851.7
30°	2791.2	2775.8	2759.2	2747.4	2746.2
32.5°	2681.0	2670.3	2646.6	2634.8	2631.2
35°	2567.2	2551.8	2529.3	2516.3	2516.3
37.5°	2446.3	2433.3	2410.8	2391.8	2383.5
40°	2319.5	2306.5	2282.8	2262.6	2255.5
42.5°	2193.9	2186.8	2152.4	2135.8	2125.1
45°	2069.4	2049.3	2022.0	2003.1	1997.1
47.5°	1939.1	1921.3	1890.5	1869.1	1859.6
50°	1801.6	1789.7	1758.9	1732.8	1729.3
52.5°	1671.2	1651.0	1627.3	1598.9	1594.1
55°	1530.1	1513.6	1487.5	1466.1	1454.3
57.5°	1397.4	1384.4	1358.3	1329.8	1323.9
60°	1262.3	1249.2	1222.0	1200.6	1192.4
62.5°	1135.5	1116.5	1095.2	1067.9	1059.6
65°	1002.7	988.5	961.2	943.5	929.2
67.5°	870.0	859.3	836.8	820.2	810.7
70°	746.7	733.7	712.3	692.2	683.9
72.5°	625.8	609.2	589.1	574.8	571.3
75°	503.7	490.7	474.1	462.2	457.5
77.5°	384.0	379.3	365.1	352.0	347.3
80°	276.2	272.6	260.8	252.5	247.7
82.5°	179.0	176.6	171.9	164.7	163.6
85°	97.2	99.6	94.8	90.1	87.7
87.5°	34.4	33.2	32.0	30.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

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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	16.43	18.02	16.80	18.34	18.65	16.14	17.73	16.50	18.04	18.36
	3H	18.08	19.51	18.46	19.84	20.20	17.72	19.16	18.10	19.49	19.85
	4H	18.66	20.01	19.06	20.36	20.74	18.27	19.62	18.67	19.97	20.35
	6H	19.05	20.29	19.46	20.66	21.05	18.62	19.87	19.03	20.24	20.63
	8H	19.14	20.34	19.57	20.73	21.12	18.71	19.91	19.14	20.29	20.69
	12H	19.20	20.34	19.62	20.72	21.15	18.76	19.90	19.19	20.28	20.71
4H	2H	16.97	18.32	17.37	18.67	19.05	16.74	18.09	17.13	18.43	18.81
	3H	18.83	19.96	19.24	20.36	20.76	18.53	19.66	18.94	20.05	20.46
	4H	19.53	20.55	19.97	20.96	21.40	19.19	20.21	19.62	20.62	21.06
	6H	20.03	20.92	20.49	21.36	21.81	19.65	20.53	20.10	20.97	21.43
	8H	20.16	20.99	20.63	21.44	21.90	19.77	20.60	20.23	21.04	21.51
	12H	20.25	20.99	20.73	21.46	21.93	19.84	20.59	20.33	21.06	21.53
8H	4H	19.77	20.60	20.23	21.04	21.50	19.46	20.29	19.92	20.73	21.20
	6H	20.36	21.04	20.85	21.53	22.01	20.01	20.69	20.50	21.18	21.66
	8H	20.55	21.16	21.06	21.67	22.15	20.18	20.80	20.69	21.31	21.79
	12H	20.68	21.22	21.19	21.71	22.27	20.30	20.85	20.81	21.34	21.90
12H	4H	19.78	20.52	20.26	21.00	21.47	19.48	20.22	19.96	20.70	21.17
	6H	20.38	21.00	20.89	21.50	21.99	20.04	20.66	20.55	21.17	21.65
	8H	20.62	21.16	21.12	21.65	22.21	20.26	20.81	20.77	21.30	21.86

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



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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-10

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L935-U

Data in this report applies to families of products including 22ID2-55-CFR1-L935-U

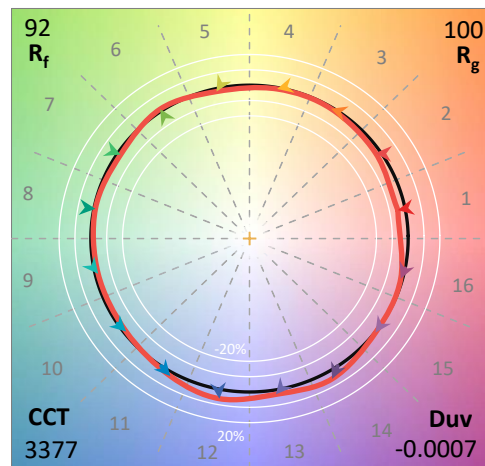
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-10
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/27/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Corelite
 Catalog Number: **22ID2-55-CFR1-L935-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 3500K 90CRI

Spectral Parameters

CCT (K): 3377
 CIE u': 0.2392
 CIE v': 0.5128
 Duv: -0.0007
 CIE x: 0.4116
 CIE y: 0.3922
 CIE z: 0.1962
 Peak Wavelength (nm): 618
 Dominant Wavelength (nm): 581
 Purity: 41.24368
 Rf: 91.8
 Rg: 99.6

CRI (Ra):	93.6		
R1:	94.1	R9:	64.2
R2:	96.6	R10:	91.1
R3:	97.5	R11:	94.7
R4:	94.0	R12:	78.5
R5:	93.6	R13:	95.0
R6:	94.8	R14:	98.1
R7:	93.4	R15:	91.0
R8:	84.8		



Test Conditions

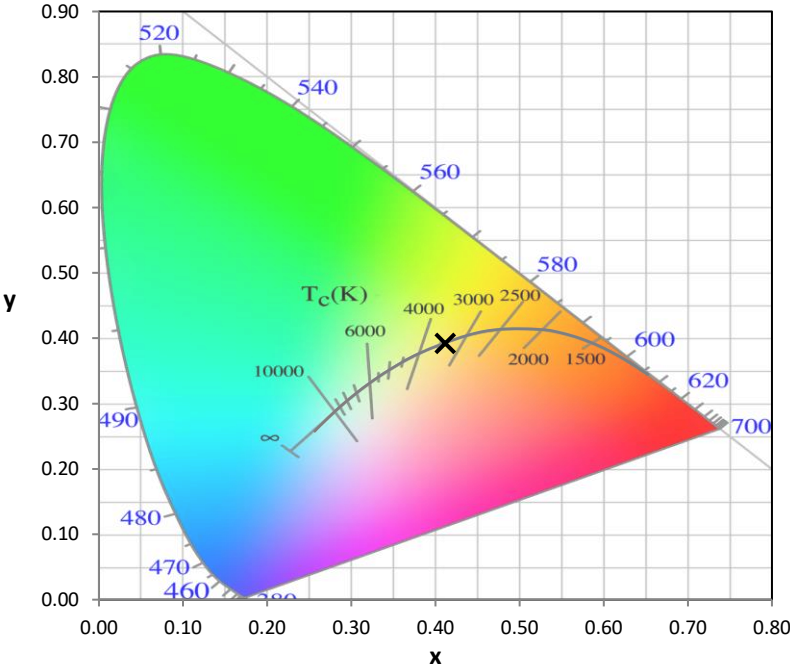
Stabilization Time: 32M
 Operation Time: 1H 32M
 Sphere Temperature (°C): 25.2

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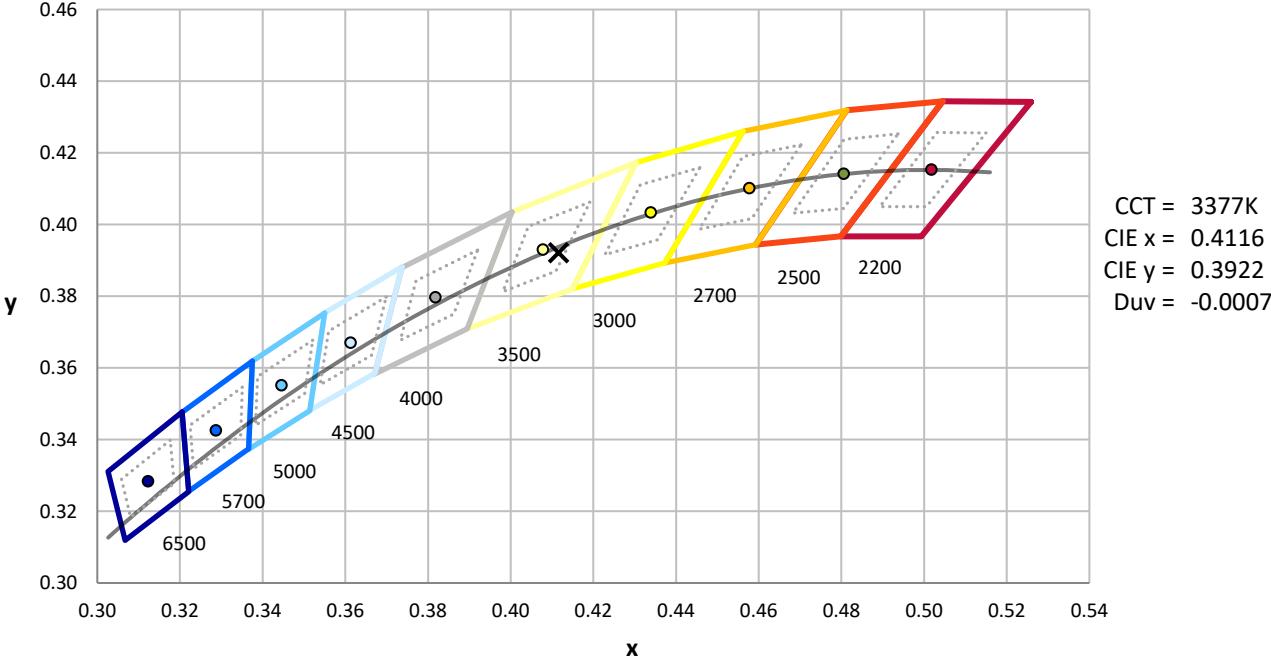
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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



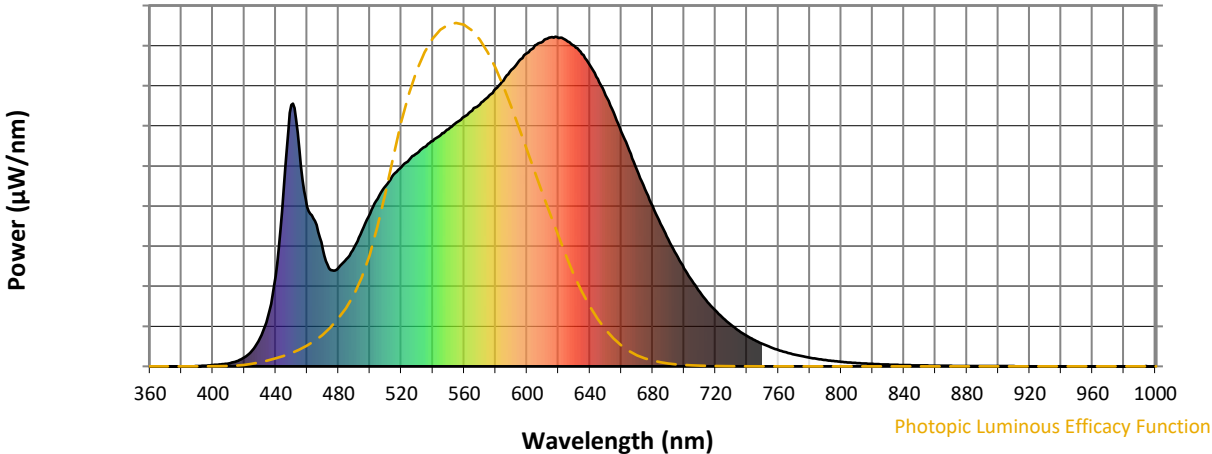
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

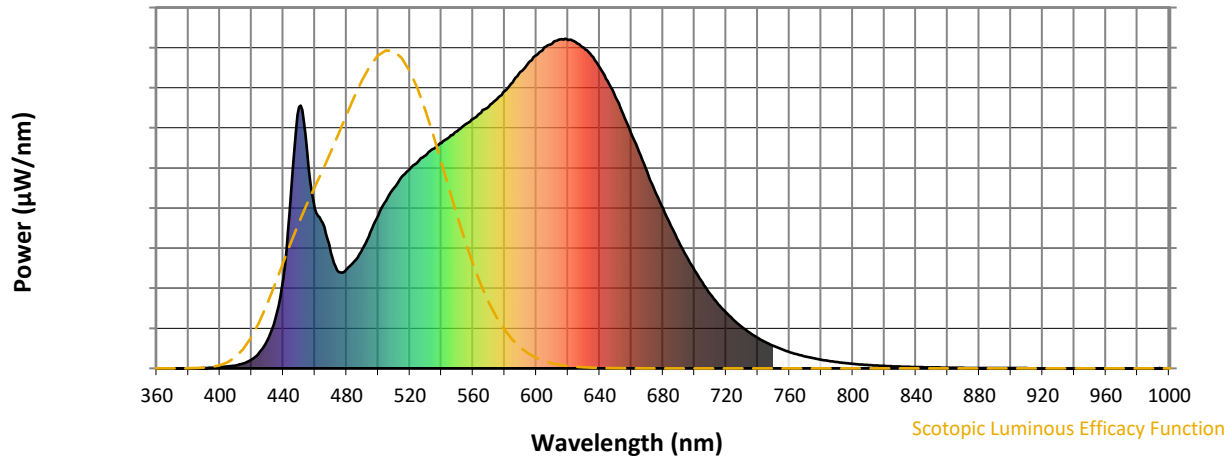


Photopic Lumens: NR

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	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



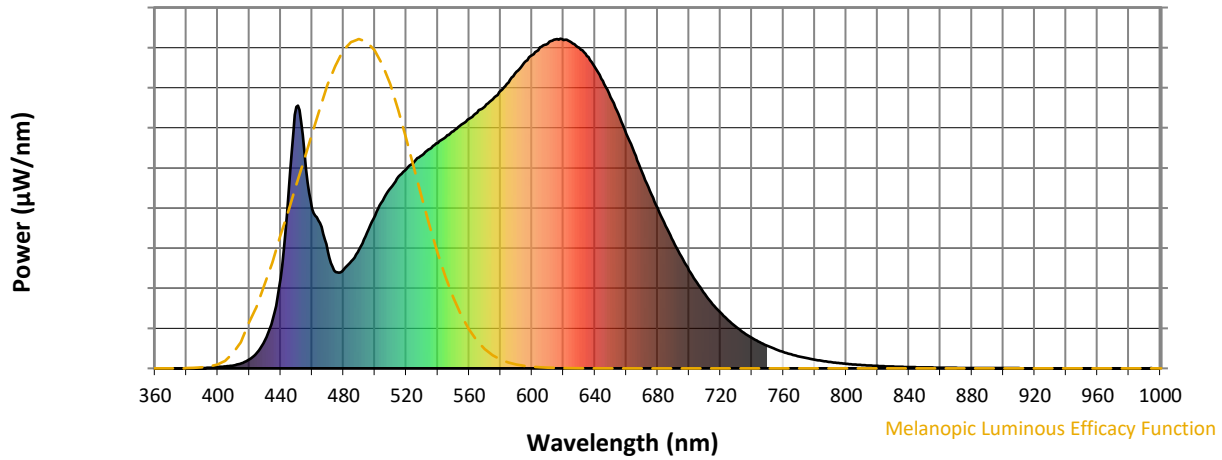
Scotopic Lumens: NR

S/P: 1.58

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	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



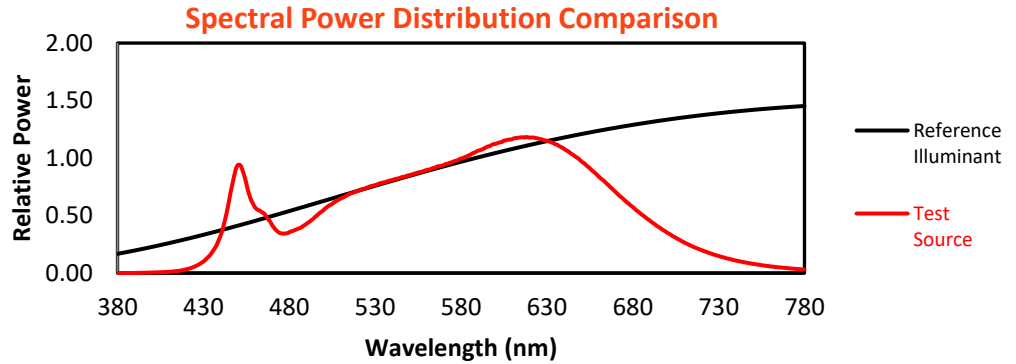
Melanopic Lumens: NR

M/P: 3.19

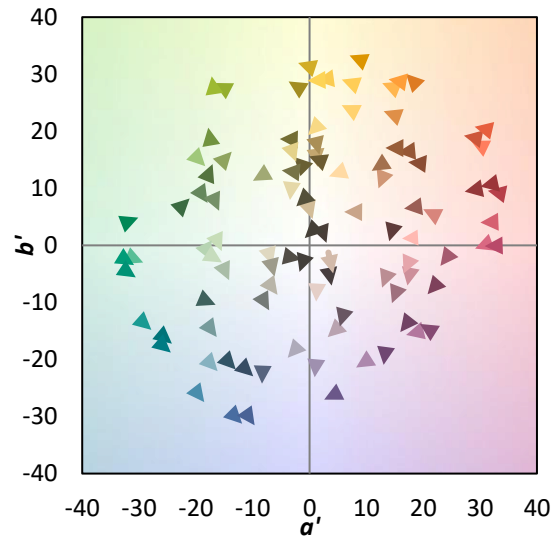
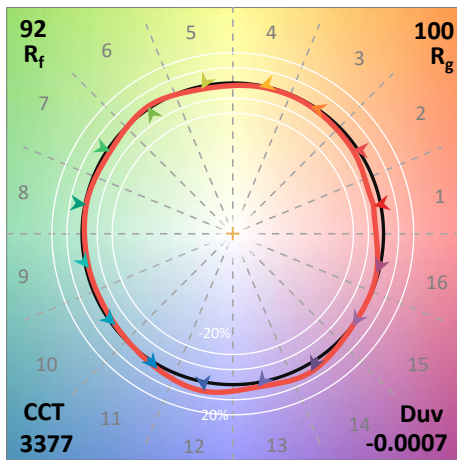
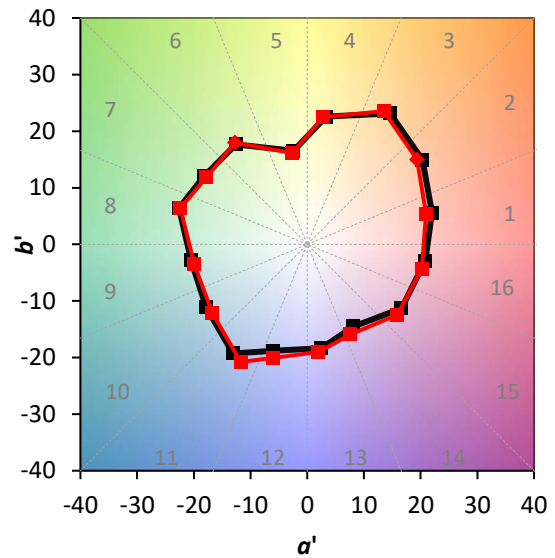
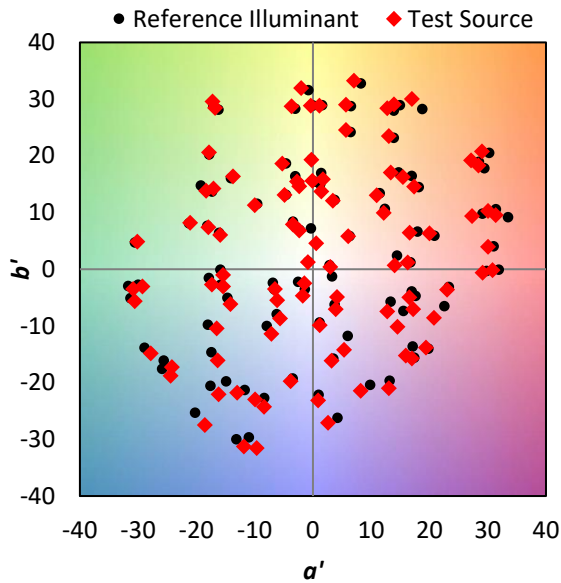
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	362	NR	620	996	NR	750	68	NR	880	1	NR
365	0	NR	495	412	NR	625	989	NR	755	58	NR	885	1	NR
370	0	NR	500	463	NR	630	973	NR	760	49	NR	890	1	NR
375	0	NR	505	509	NR	635	947	NR	765	42	NR	895	1	NR
380	0	NR	510	548	NR	640	914	NR	770	36	NR	900	1	NR
385	0	NR	515	582	NR	645	872	NR	775	31	NR	905	1	NR
390	1	NR	520	605	NR	650	822	NR	780	26	NR	910	1	NR
395	2	NR	525	626	NR	655	770	NR	785	22	NR	915	1	NR
400	4	NR	530	646	NR	660	712	NR	790	19	NR	920	0	NR
405	6	NR	535	666	NR	665	656	NR	795	16	NR	925	0	NR
410	9	NR	540	683	NR	670	596	NR	800	14	NR	930	0	NR
415	15	NR	545	702	NR	675	538	NR	805	12	NR	935	0	NR
420	27	NR	550	720	NR	680	486	NR	810	10	NR	940	0	NR
425	48	NR	555	740	NR	685	432	NR	815	9	NR	945	0	NR
430	85	NR	560	757	NR	690	385	NR	820	7	NR	950	0	NR
435	152	NR	565	776	NR	695	339	NR	825	6	NR	955	0	NR
440	274	NR	570	794	NR	700	297	NR	830	5	NR	960	0	NR
445	536	NR	575	816	NR	705	260	NR	835	5	NR	965	0	NR
450	793	NR	580	842	NR	710	225	NR	840	4	NR	970	0	NR
455	659	NR	585	867	NR	715	194	NR	845	3	NR	975	0	NR
460	484	NR	590	899	NR	720	169	NR	850	3	NR	980	0	NR
465	441	NR	595	927	NR	725	146	NR	855	2	NR	985	0	NR
470	353	NR	600	950	NR	730	125	NR	860	2	NR	990	0	NR
475	293	NR	605	974	NR	735	107	NR	865	2	NR	995	0	NR
480	300	NR	610	986	NR	740	92	NR	870	2	NR	1000	0	NR
485	325	NR	615	998	NR	745	79	NR	875	1	NR			

Summary

$R_f = 91.8$
 $R_g = 99.6$
 $CIE R_a = 93.6$
 $R_9 = 64.2$

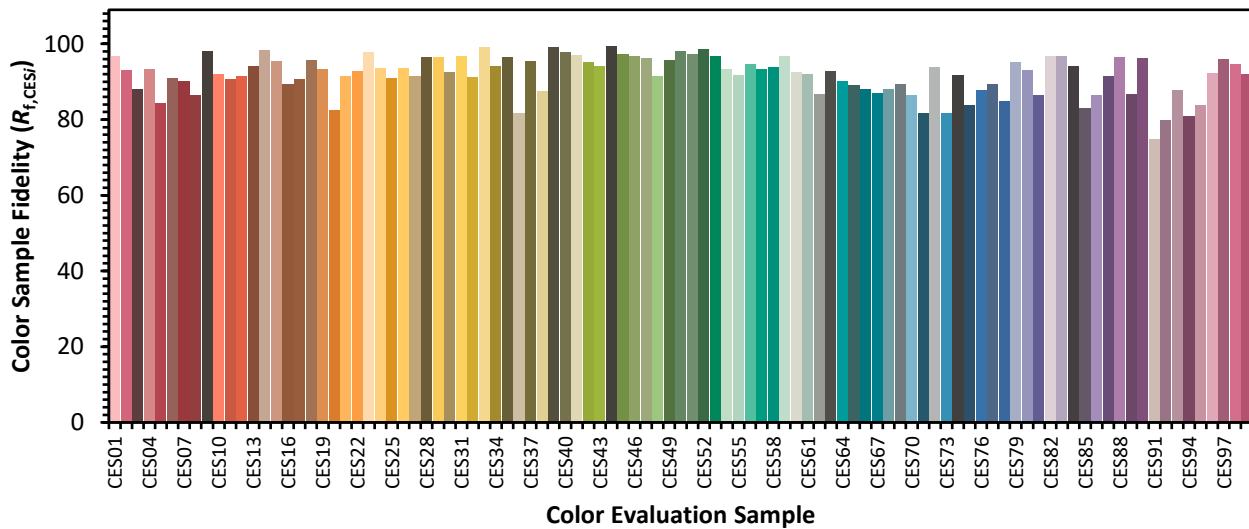


Color Vector Graphics

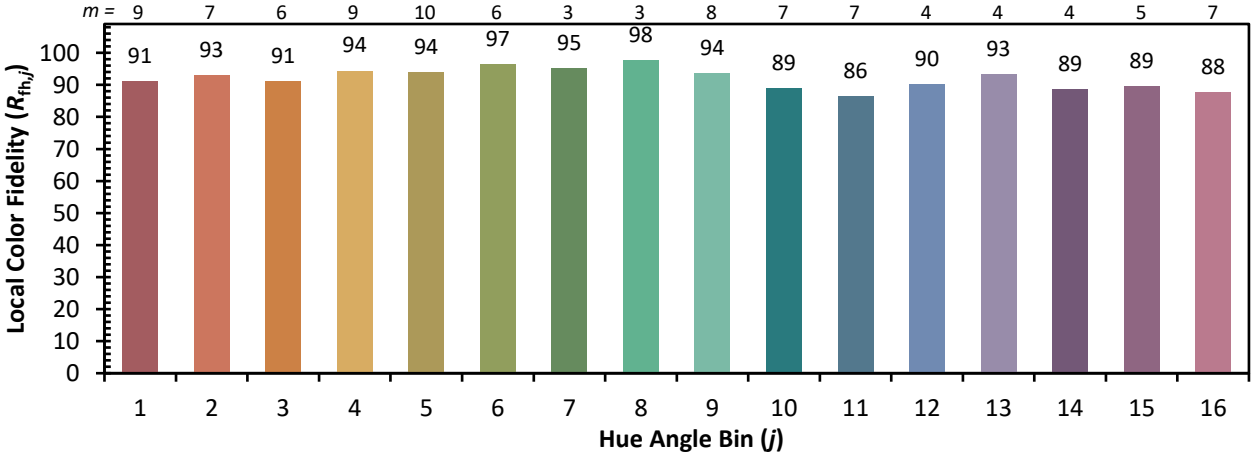
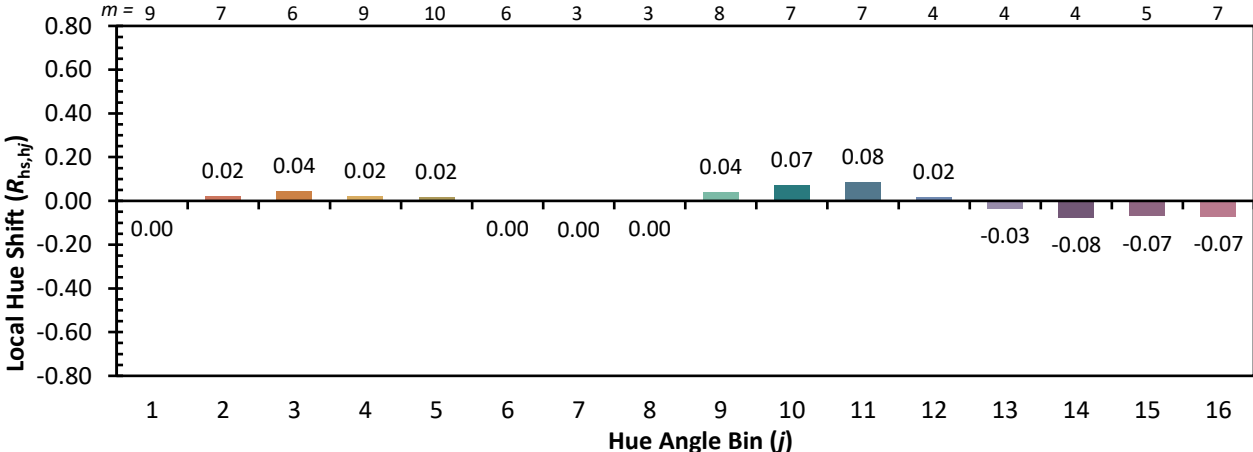
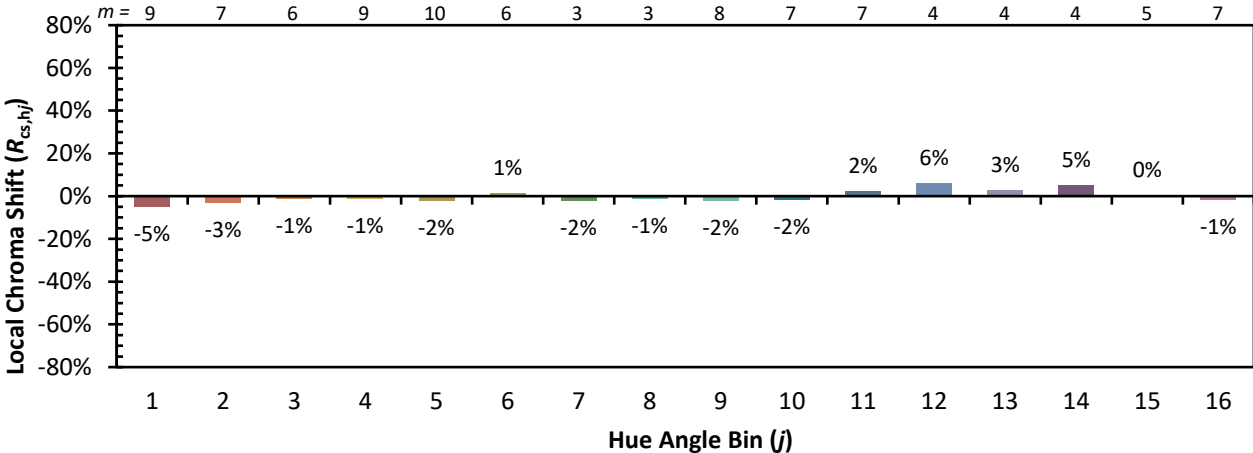


Individual Sample Fidelity Index ($R_{f,i}$)

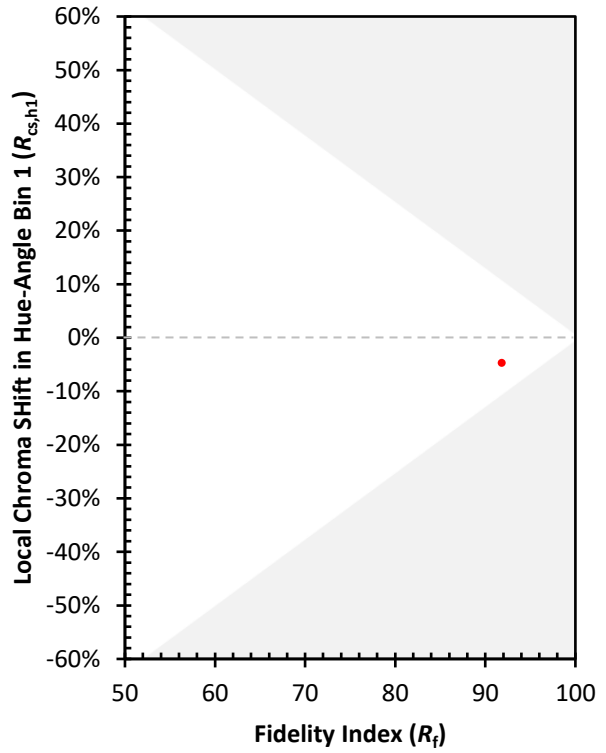
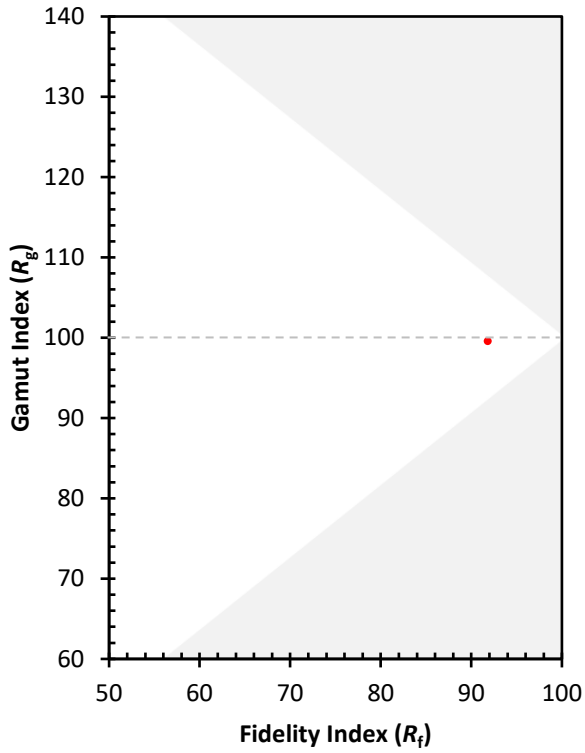
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 92	CES52 = 99	CES77 = 89
CES03 = 31	CES28 = 96	CES53 = 97	CES78 = 85
CES04 = 70	CES29 = 96	CES54 = 93	CES79 = 95
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 93
CES06 = 51	CES31 = 97	CES56 = 95	CES81 = 86
CES07 = 43	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 42	CES33 = 99	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 97	CES84 = 94
CES10 = 75	CES35 = 96	CES60 = 92	CES85 = 83
CES11 = 58	CES36 = 82	CES61 = 92	CES86 = 86
CES12 = 64	CES37 = 95	CES62 = 87	CES87 = 91
CES13 = 43	CES38 = 87	CES63 = 93	CES88 = 97
CES14 = 74	CES39 = 99	CES64 = 90	CES89 = 87
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 97	CES66 = 88	CES91 = 75
CES17 = 50	CES42 = 95	CES67 = 87	CES92 = 80
CES18 = 56	CES43 = 94	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 81
CES20 = 67	CES45 = 97	CES70 = 86	CES95 = 84
CES21 = 86	CES46 = 97	CES71 = 82	CES96 = 92
CES22 = 78	CES47 = 96	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 92	CES73 = 82	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 92	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)