

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: P1214711

Luminaire Tested: 22-ID2-70-CFR2-L940-U

Issue Date: 12/4/2025

Test Information

Test Method: LM-79-2019
Report Number: P1214711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2506-458-11)
Test Lab: INNOVATION CENTER
Issue Date: 12/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22-ID2-70-CFR2-L940-U
Description: 2X2 IN DEPTH TROFFER WITH 2INCH CUBE REGRESS LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

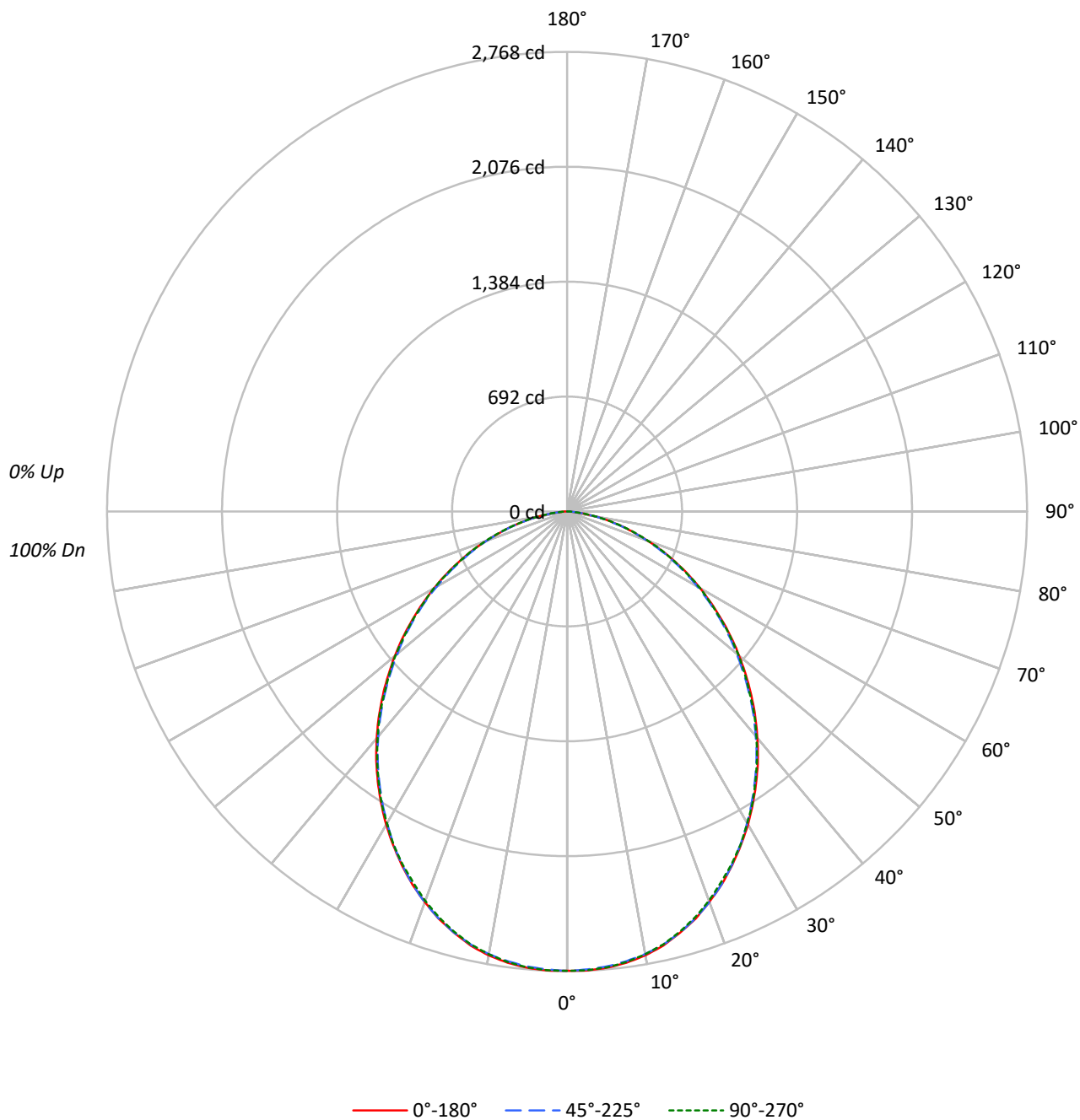
Lumens per Lamp: N/A
Luminaire Lumens: 6660.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 62.5
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: P1214711
CATALOG NUMBER: 22-ID2-70-CFR2-L940-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214711

CATALOG NUMBER: 22-ID2-70-CFR2-L940-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	49	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	38	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	31	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7445	7445	7445
5°	7451	7431	7444
10°	7419	7397	7399
15°	7319	7316	7302
20°	7168	7170	7147
25°	6980	6970	6958
30°	6767	6733	6736
35°	6523	6477	6496
40°	6256	6210	6227
45°	5967	5898	5920
50°	5659	5579	5638
55°	5327	5249	5292
60°	4970	4876	4974
65°	4566	4481	4550
70°	4071	4025	4091
75°	3503	3442	3537
80°	2669	2669	2771
85°	1463	1565	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5967 cd/sqm

TEST NUMBER: P1214711
 CATALOG NUMBER: 22-ID2-70-CFR2-L940-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	3.9
10°-20°	738.9	11.1
20°-30°	1080.9	16.2
30°-40°	1237.5	18.6
40°-50°	1201.9	18.0
50°-60°	1007.5	15.1
60°-70°	703.9	10.6
70°-80°	357.1	5.4
80°-90°	71.3	1.1
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°	2081.2	31.2
0°-40°	3318.7	49.8
0°-60°	5528.1	83.0
0°-90°	6660.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6660.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2767	2767	2767	2767	2767	
5°	2758	2754	2751	2752	2756	262
15°	2627	2626	2626	2620	2621	740
25°	2351	2355	2348	2349	2343	1082
35°	1986	1985	1972	1980	1977	1241
45°	1568	1562	1550	1556	1556	1210
55°	1136	1125	1119	1127	1128	1016
65°	717	707	704	709	715	712
75°	337	333	331	336	340	359
85°	47	48	51	52	50	70
90°	0	0	0	0	0	

TEST NUMBER: P1214711

CATALOG NUMBER: 22-ID2-70-CFR2-L940-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2766.8	2766.8	2766.8	2766.8	2766.8
2.5°	2767.6	2765.1	2760.9	2762.6	2765.1
5°	2758.4	2754.3	2750.9	2751.8	2755.9
7.5°	2741.0	2736.0	2731.8	2733.5	2736.8
10°	2715.2	2710.2	2706.9	2706.9	2707.7
12.5°	2678.6	2673.6	2671.9	2669.4	2671.1
15°	2627.0	2626.2	2626.2	2620.3	2621.2
17.5°	2572.1	2569.6	2569.6	2562.9	2562.1
20°	2503.1	2503.1	2503.9	2499.7	2495.6
22.5°	2431.5	2432.3	2430.7	2426.5	2418.2
25°	2350.8	2355.0	2347.5	2349.2	2343.3
27.5°	2266.0	2266.8	2261.0	2263.5	2261.0
30°	2177.8	2177.8	2167.0	2176.1	2167.8
32.5°	2082.1	2085.5	2071.3	2078.8	2078.0
35°	1985.6	1984.8	1971.5	1979.8	1977.3
37.5°	1886.6	1882.5	1872.5	1877.5	1877.5
40°	1781.0	1776.0	1767.7	1775.2	1772.7
42.5°	1677.0	1670.4	1659.6	1664.5	1669.5
45°	1568.0	1562.2	1549.7	1556.4	1555.6
47.5°	1459.9	1454.1	1439.9	1447.4	1450.8
50°	1351.8	1345.9	1332.6	1340.1	1346.8
52.5°	1245.3	1235.3	1227.0	1236.1	1236.1
55°	1135.5	1124.7	1118.8	1127.2	1128.0
57.5°	1029.0	1019.9	1012.4	1019.9	1020.7
60°	923.4	915.9	905.9	914.2	924.2
62.5°	821.9	812.7	804.4	811.1	816.1
65°	717.1	707.1	703.8	708.7	714.6
67.5°	621.4	611.4	605.6	608.1	618.9
70°	517.4	516.6	511.6	512.4	519.9
72.5°	424.2	421.8	420.9	424.2	430.9
75°	336.9	332.7	331.1	336.1	340.2
77.5°	256.2	253.7	249.6	252.1	253.7
80°	172.2	171.4	172.2	178.0	178.8
82.5°	104.8	104.8	105.6	110.6	107.3
85°	47.4	48.2	50.7	51.6	49.9
87.5°	17.5	18.3	17.5	20.0	18.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214711

CATALOG NUMBER: 22-ID2-70-CFR2-L940-U

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	17.66	19.23	18.02	19.54	19.86	17.65	19.22	18.01	19.53	19.85
	3H	19.20	20.61	19.57	20.94	21.30	19.18	20.59	19.56	20.92	21.28
	4H	19.70	21.03	20.10	21.38	21.76	19.70	21.03	20.10	21.38	21.75
	6H	20.01	21.24	20.42	21.61	22.00	20.01	21.24	20.43	21.61	22.00
	8H	20.07	21.24	20.50	21.63	22.03	20.08	21.25	20.51	21.64	22.04
	12H	20.09	21.21	20.52	21.59	22.02	20.10	21.22	20.53	21.61	22.03
4H	2H	18.19	19.52	18.59	19.87	20.25	18.18	19.51	18.58	19.86	20.24
	3H	19.93	21.04	20.34	21.44	21.84	19.92	21.02	20.33	21.42	21.82
	4H	20.55	21.54	20.98	21.96	22.39	20.55	21.54	20.98	21.96	22.40
	6H	20.95	21.82	21.41	22.26	22.72	20.96	21.83	21.42	22.27	22.73
	8H	21.04	21.85	21.50	22.29	22.76	21.06	21.87	21.52	22.31	22.78
	12H	21.08	21.80	21.56	22.28	22.75	21.10	21.82	21.58	22.30	22.77
8H	4H	20.76	21.57	21.23	22.02	22.48	20.76	21.57	21.23	22.02	22.48
	6H	21.25	21.92	21.74	22.41	22.88	21.26	21.93	21.76	22.42	22.90
	8H	21.37	21.97	21.88	22.48	22.97	21.40	22.00	21.91	22.51	22.99
	12H	21.44	21.97	21.95	22.46	23.02	21.47	22.00	21.98	22.49	23.06
12H	4H	20.77	21.50	21.25	21.97	22.44	20.77	21.50	21.25	21.97	22.44
	6H	21.26	21.86	21.77	22.37	22.86	21.27	21.87	21.78	22.38	22.87
	8H	21.42	21.95	21.93	22.45	23.01	21.45	21.98	21.96	22.47	23.03

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-11

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L940-U

Data in this report applies to families of products including 22ID2-55-CFR1-L940-U

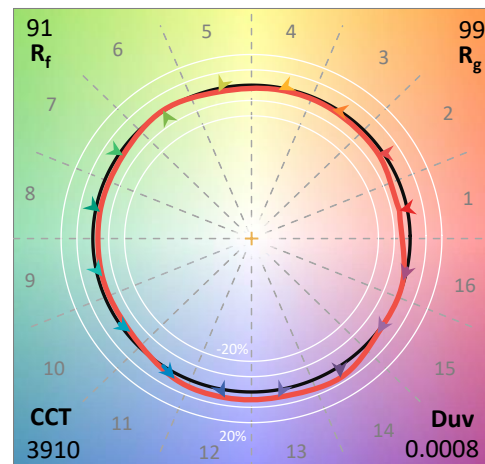
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-11
 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-L940-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 4000K 90CRI

Spectral Parameters

CCT (K): 3910
 CIE u' : 0.2263
 CIE v' : 0.5043
 Duv: 0.0008
 CIE x: 0.3851
 CIE y: 0.3813
 CIE z: 0.2336
 Peak Wavelength (nm): 451
 Dominant Wavelength (nm): 578
 Purity: 30.01895
 R_f: 90.8
 R_g: 98.8

CRI (Ra): 92.4
 R1: 92.5
 R2: 94.9
 R3: 95.8
 R4: 92.7
 R5: 91.7
 R6: 92.1
 R7: 94.3
 R8: 85.2
 R9: 62.0
 R10: 87.0
 R11: 92.8
 R12: 71.7
 R13: 93.2
 R14: 97.3
 R15: 89.6



Test Conditions

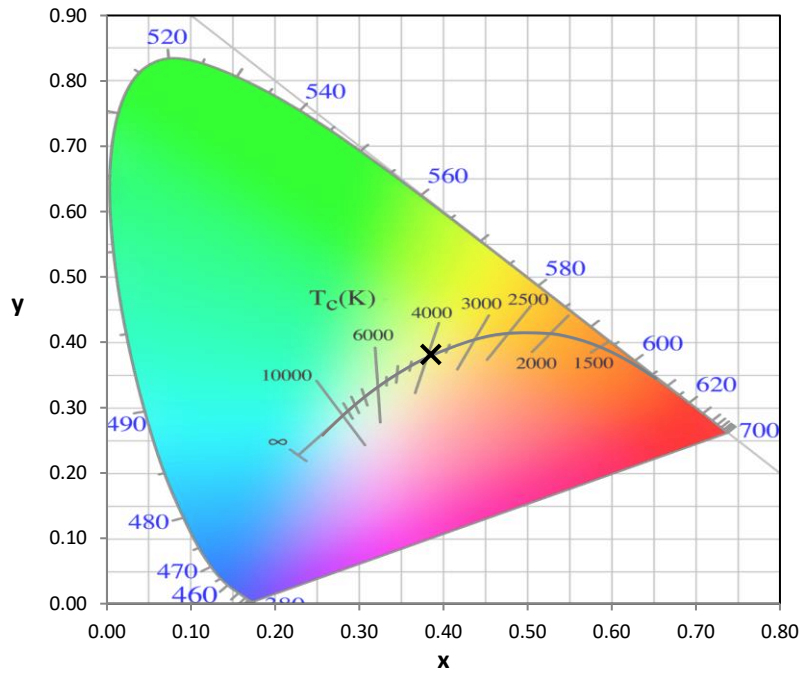
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 25.2.

REPORT NUMBER: SP1-2506-458-11

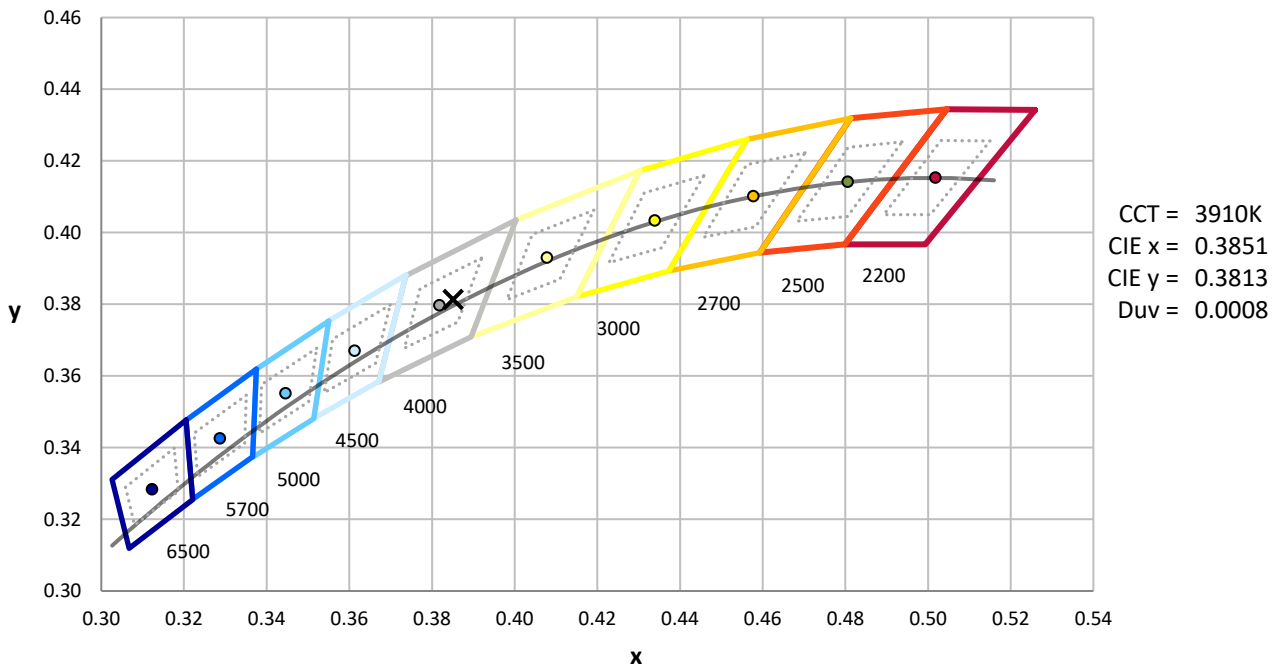
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

REPORT NUMBER: SP1-2506-458-11

CIE 1931 Chromaticity Diagram



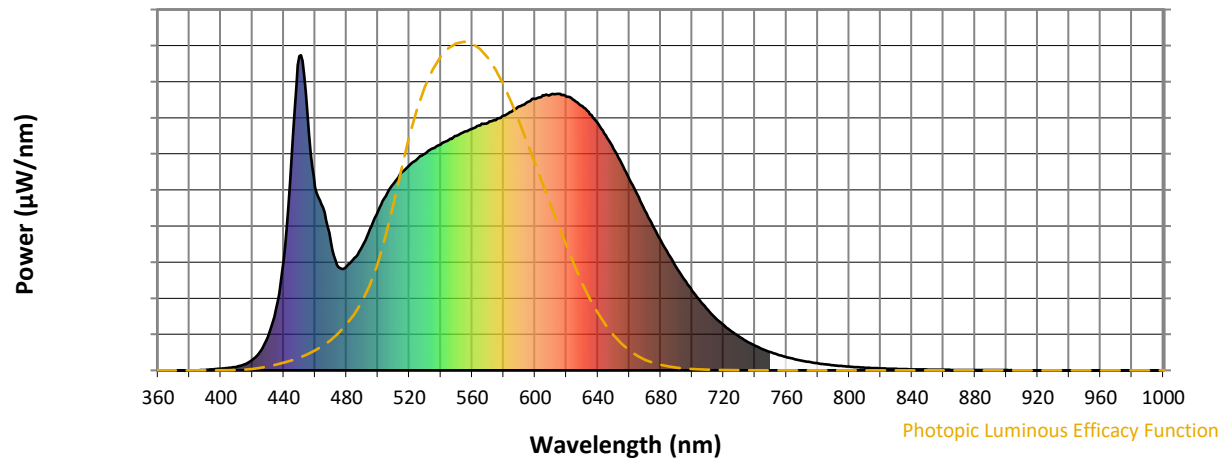
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-11

Photopic Flux vs. Wavelength

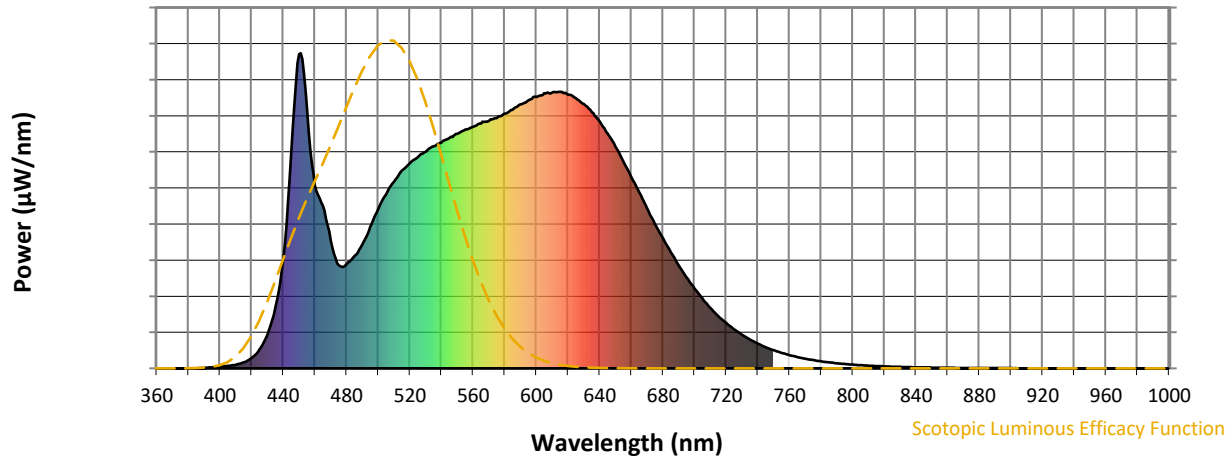


Photopic Lumens: NR

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	394	NR	620	868	NR	750	58	NR	880	1	NR
365	0	NR	495	449	NR	625	858	NR	755	49	NR	885	1	NR
370	0	NR	500	505	NR	630	839	NR	760	42	NR	890	1	NR
375	0	NR	505	553	NR	635	813	NR	765	36	NR	895	1	NR
380	0	NR	510	593	NR	640	783	NR	770	31	NR	900	1	NR
385	0	NR	515	628	NR	645	746	NR	775	26	NR	905	1	NR
390	1	NR	520	651	NR	650	702	NR	780	22	NR	910	0	NR
395	4	NR	525	670	NR	655	657	NR	785	19	NR	915	0	NR
400	5	NR	530	687	NR	660	607	NR	790	16	NR	920	0	NR
405	8	NR	535	705	NR	665	559	NR	795	14	NR	925	0	NR
410	12	NR	540	717	NR	670	507	NR	800	12	NR	930	0	NR
415	19	NR	545	731	NR	675	458	NR	805	10	NR	935	0	NR
420	34	NR	550	745	NR	680	413	NR	810	9	NR	940	0	NR
425	60	NR	555	757	NR	685	367	NR	815	7	NR	945	0	NR
430	107	NR	560	767	NR	690	328	NR	820	6	NR	950	0	NR
435	194	NR	565	777	NR	695	289	NR	825	5	NR	955	0	NR
440	349	NR	570	785	NR	700	253	NR	830	5	NR	960	0	NR
445	678	NR	575	794	NR	705	221	NR	835	4	NR	965	0	NR
450	997	NR	580	809	NR	710	192	NR	840	3	NR	970	0	NR
455	819	NR	585	820	NR	715	165	NR	845	3	NR	975	0	NR
460	581	NR	590	838	NR	720	144	NR	850	2	NR	980	0	NR
465	517	NR	595	851	NR	725	124	NR	855	2	NR	985	0	NR
470	406	NR	600	861	NR	730	107	NR	860	2	NR	990	0	NR
475	327	NR	605	873	NR	735	91	NR	865	2	NR	995	0	NR
480	330	NR	610	875	NR	740	78	NR	870	1	NR	1000	0	NR
485	356	NR	615	877	NR	745	67	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-11

Scotopic Flux vs. Wavelength



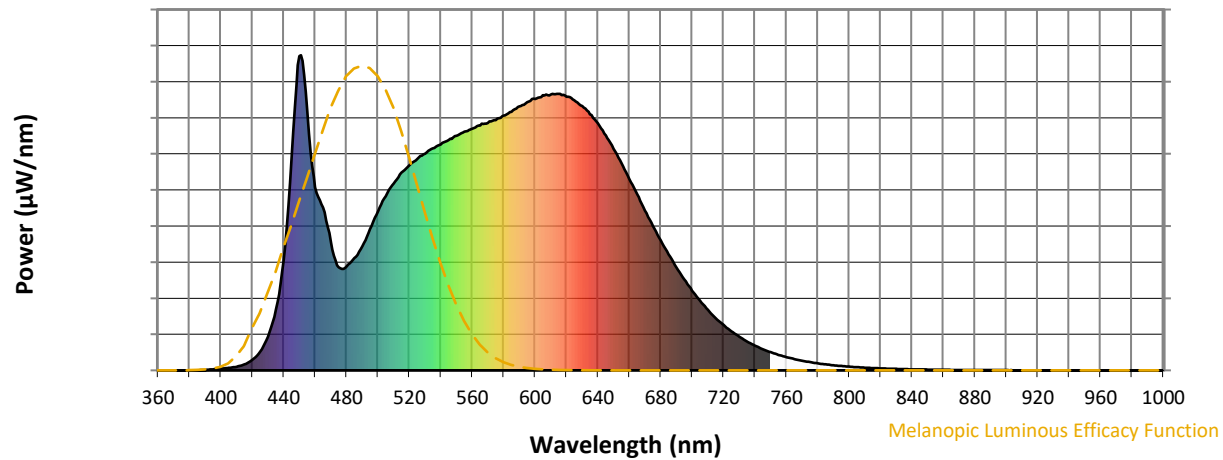
Scotopic Lumens: NR

S/P: 1.75

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	394	NR	620	868	NR	750	58	NR	880	1	NR
365	0	NR	495	449	NR	625	858	NR	755	49	NR	885	1	NR
370	0	NR	500	505	NR	630	839	NR	760	42	NR	890	1	NR
375	0	NR	505	553	NR	635	813	NR	765	36	NR	895	1	NR
380	0	NR	510	593	NR	640	783	NR	770	31	NR	900	1	NR
385	0	NR	515	628	NR	645	746	NR	775	26	NR	905	1	NR
390	1	NR	520	651	NR	650	702	NR	780	22	NR	910	0	NR
395	4	NR	525	670	NR	655	657	NR	785	19	NR	915	0	NR
400	5	NR	530	687	NR	660	607	NR	790	16	NR	920	0	NR
405	8	NR	535	705	NR	665	559	NR	795	14	NR	925	0	NR
410	12	NR	540	717	NR	670	507	NR	800	12	NR	930	0	NR
415	19	NR	545	731	NR	675	458	NR	805	10	NR	935	0	NR
420	34	NR	550	745	NR	680	413	NR	810	9	NR	940	0	NR
425	60	NR	555	757	NR	685	367	NR	815	7	NR	945	0	NR
430	107	NR	560	767	NR	690	328	NR	820	6	NR	950	0	NR
435	194	NR	565	777	NR	695	289	NR	825	5	NR	955	0	NR
440	349	NR	570	785	NR	700	253	NR	830	5	NR	960	0	NR
445	678	NR	575	794	NR	705	221	NR	835	4	NR	965	0	NR
450	997	NR	580	809	NR	710	192	NR	840	3	NR	970	0	NR
455	819	NR	585	820	NR	715	165	NR	845	3	NR	975	0	NR
460	581	NR	590	838	NR	720	144	NR	850	2	NR	980	0	NR
465	517	NR	595	851	NR	725	124	NR	855	2	NR	985	0	NR
470	406	NR	600	861	NR	730	107	NR	860	2	NR	990	0	NR
475	327	NR	605	873	NR	735	91	NR	865	2	NR	995	0	NR
480	330	NR	610	875	NR	740	78	NR	870	1	NR	1000	0	NR
485	356	NR	615	877	NR	745	67	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-11

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.61

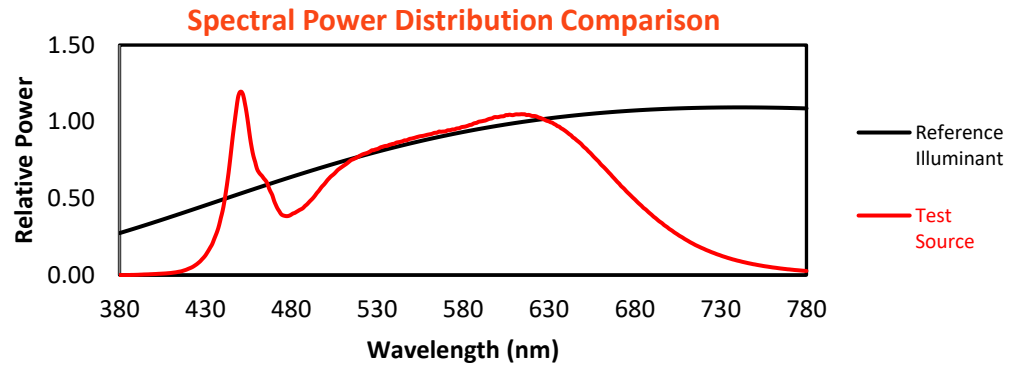
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	394	NR	620	868	NR	750	58	NR	880	1	NR
365	0	NR	495	449	NR	625	858	NR	755	49	NR	885	1	NR
370	0	NR	500	505	NR	630	839	NR	760	42	NR	890	1	NR
375	0	NR	505	553	NR	635	813	NR	765	36	NR	895	1	NR
380	0	NR	510	593	NR	640	783	NR	770	31	NR	900	1	NR
385	0	NR	515	628	NR	645	746	NR	775	26	NR	905	1	NR
390	1	NR	520	651	NR	650	702	NR	780	22	NR	910	0	NR
395	4	NR	525	670	NR	655	657	NR	785	19	NR	915	0	NR
400	5	NR	530	687	NR	660	607	NR	790	16	NR	920	0	NR
405	8	NR	535	705	NR	665	559	NR	795	14	NR	925	0	NR
410	12	NR	540	717	NR	670	507	NR	800	12	NR	930	0	NR
415	19	NR	545	731	NR	675	458	NR	805	10	NR	935	0	NR
420	34	NR	550	745	NR	680	413	NR	810	9	NR	940	0	NR
425	60	NR	555	757	NR	685	367	NR	815	7	NR	945	0	NR
430	107	NR	560	767	NR	690	328	NR	820	6	NR	950	0	NR
435	194	NR	565	777	NR	695	289	NR	825	5	NR	955	0	NR
440	349	NR	570	785	NR	700	253	NR	830	5	NR	960	0	NR
445	678	NR	575	794	NR	705	221	NR	835	4	NR	965	0	NR
450	997	NR	580	809	NR	710	192	NR	840	3	NR	970	0	NR
455	819	NR	585	820	NR	715	165	NR	845	3	NR	975	0	NR
460	581	NR	590	838	NR	720	144	NR	850	2	NR	980	0	NR
465	517	NR	595	851	NR	725	124	NR	855	2	NR	985	0	NR
470	406	NR	600	861	NR	730	107	NR	860	2	NR	990	0	NR
475	327	NR	605	873	NR	735	91	NR	865	2	NR	995	0	NR
480	330	NR	610	875	NR	740	78	NR	870	1	NR	1000	0	NR
485	356	NR	615	877	NR	745	67	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-11

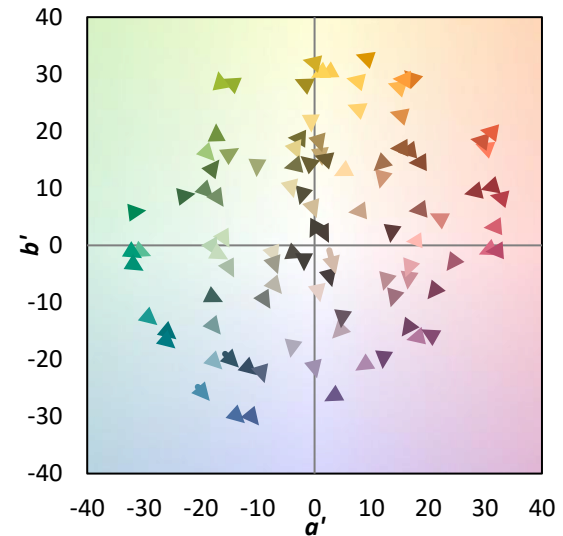
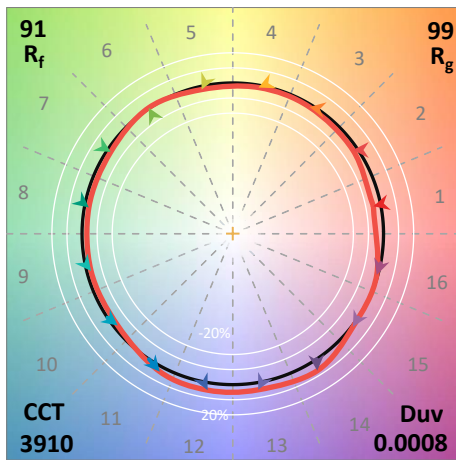
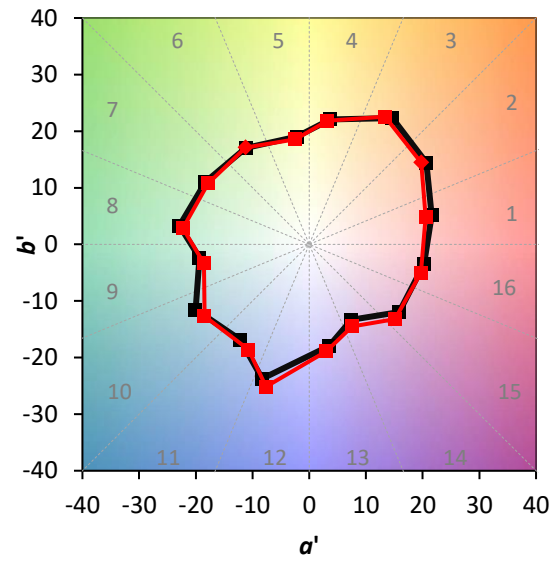
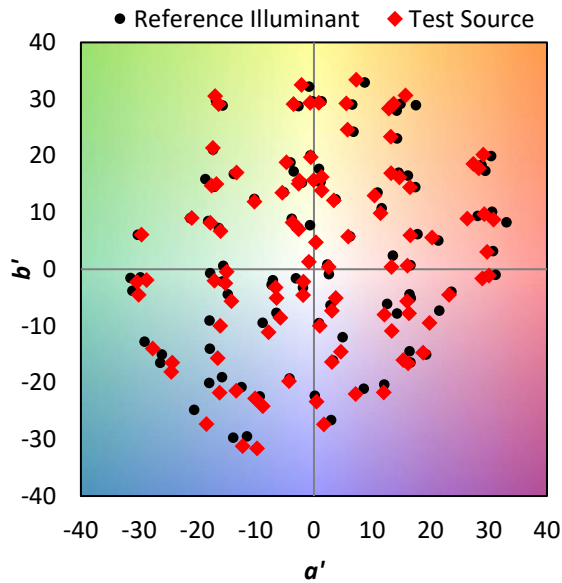
TM-30-18

Summary

$R_f = 90.8$
 $R_g = 98.8$
 $CIE R_a = 92.4$
 $R_9 = 62.0$

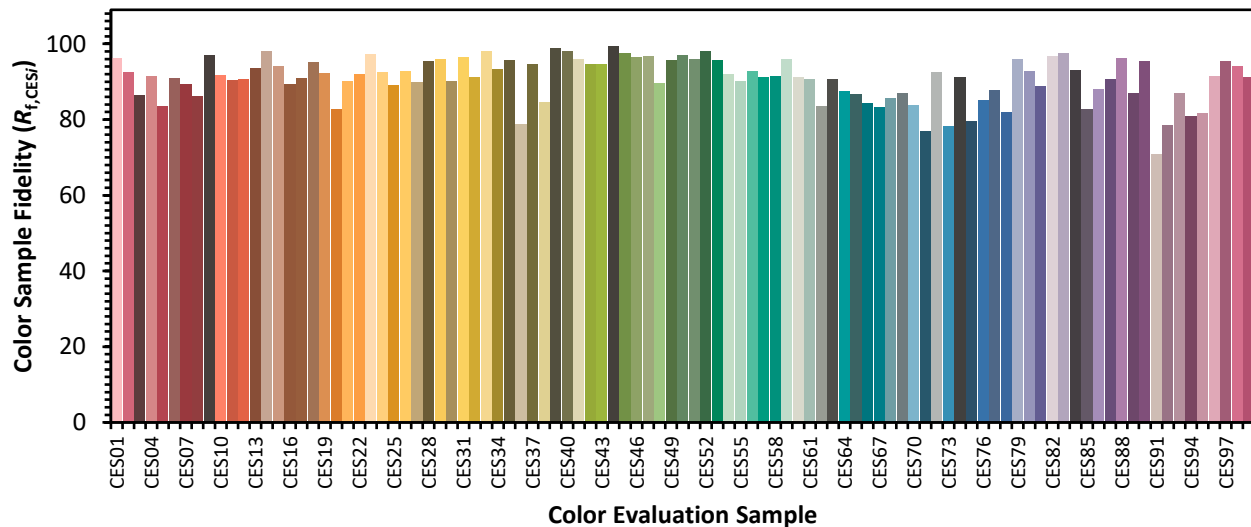


Color Vector Graphics

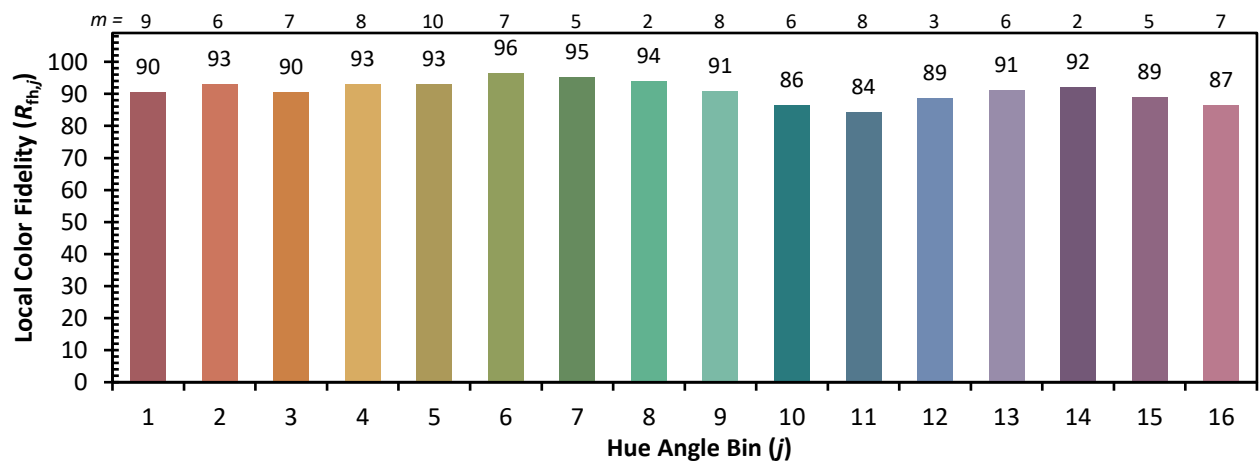
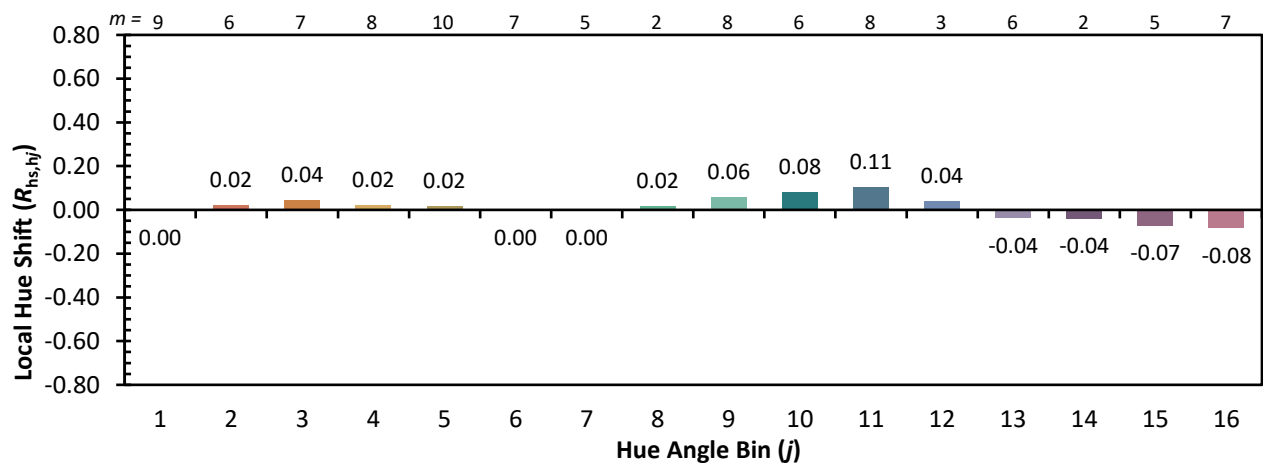
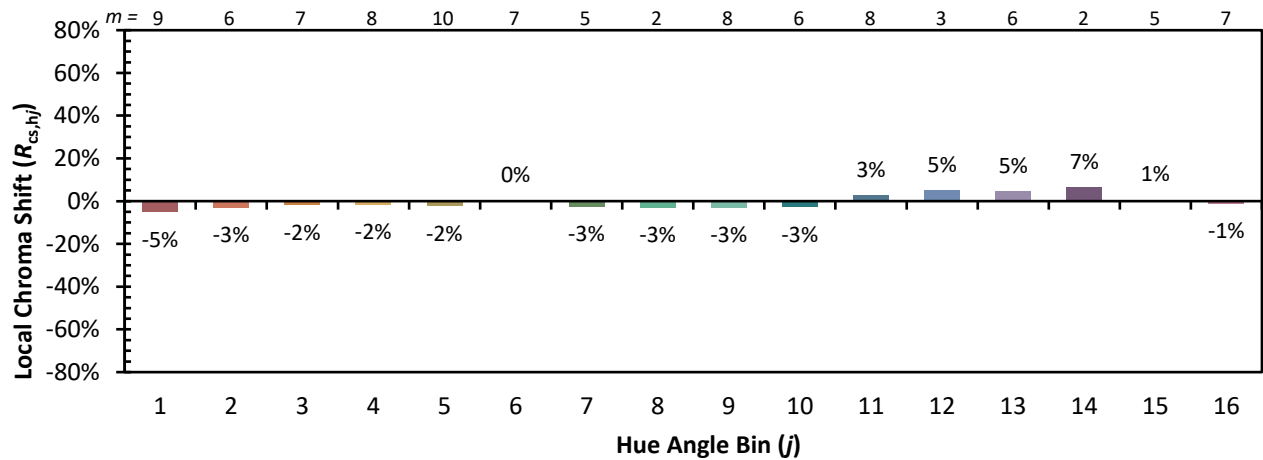


Individual Sample Fidelity Index ($R_{f,i}$)

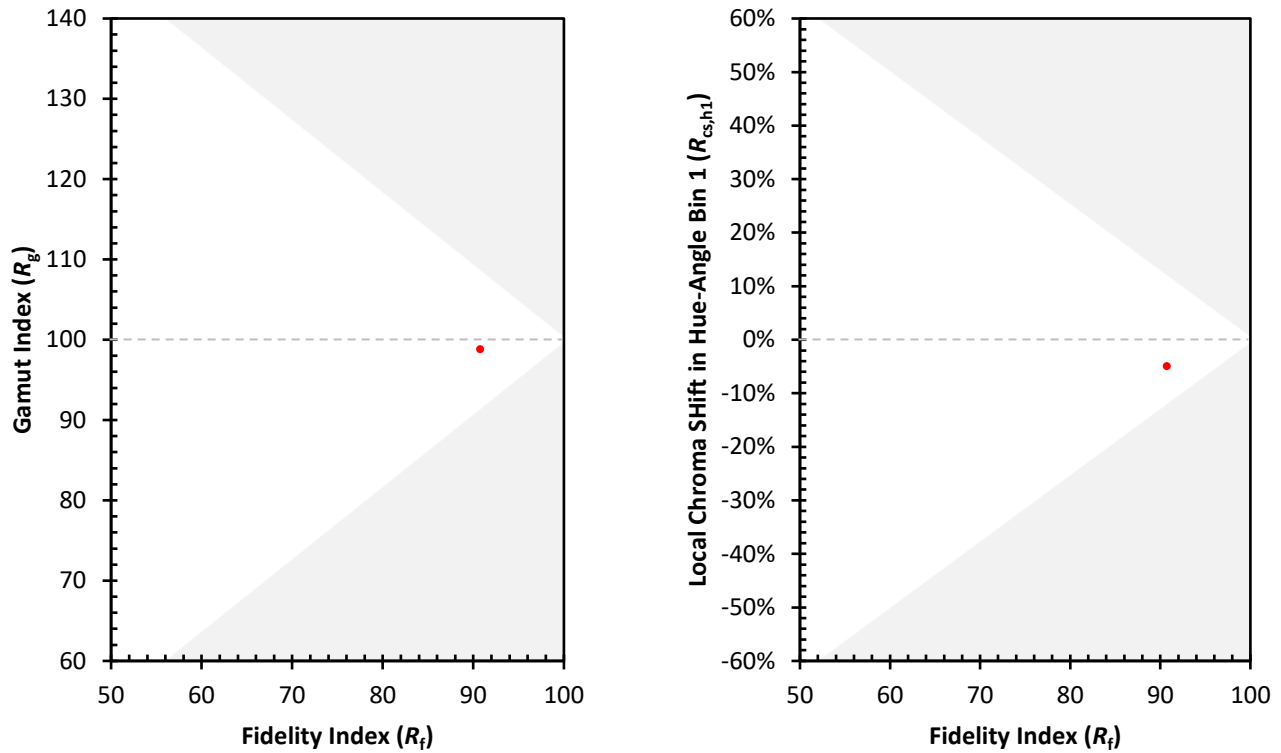
CES01 = 86	CES26 = 93	CES51 = 96	CES76 = 85
CES02 = 62	CES27 = 90	CES52 = 98	CES77 = 88
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 82
CES04 = 69	CES29 = 96	CES54 = 92	CES79 = 96
CES05 = 49	CES30 = 90	CES55 = 90	CES80 = 93
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 96	CES84 = 93
CES10 = 74	CES35 = 96	CES60 = 91	CES85 = 83
CES11 = 57	CES36 = 79	CES61 = 91	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 84	CES87 = 91
CES13 = 43	CES38 = 85	CES63 = 91	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 87	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 87	CES90 = 96
CES16 = 47	CES41 = 96	CES66 = 84	CES91 = 71
CES17 = 49	CES42 = 95	CES67 = 83	CES92 = 79
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 71	CES44 = 99	CES69 = 87	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 84	CES95 = 82
CES21 = 85	CES46 = 97	CES71 = 77	CES96 = 91
CES22 = 78	CES47 = 97	CES72 = 93	CES97 = 96
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 91	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)