

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: P1214947

Luminaire Tested: 22-ID2-50-CNC-L840-U

Issue Date: 12/4/2025

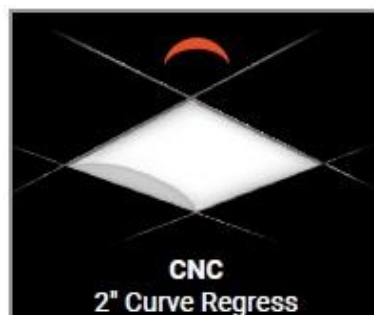
Test Information

Test Method: LM-79-2019
Report Number: P1214947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2506-458-14)
Test Lab: INNOVATION CENTER
Issue Date: 12/4/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22-ID2-50-CNC-L840-U
Description: 2X2 IN DEPTH TROFFER WITH 2INCH CURVE REGRESSED
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

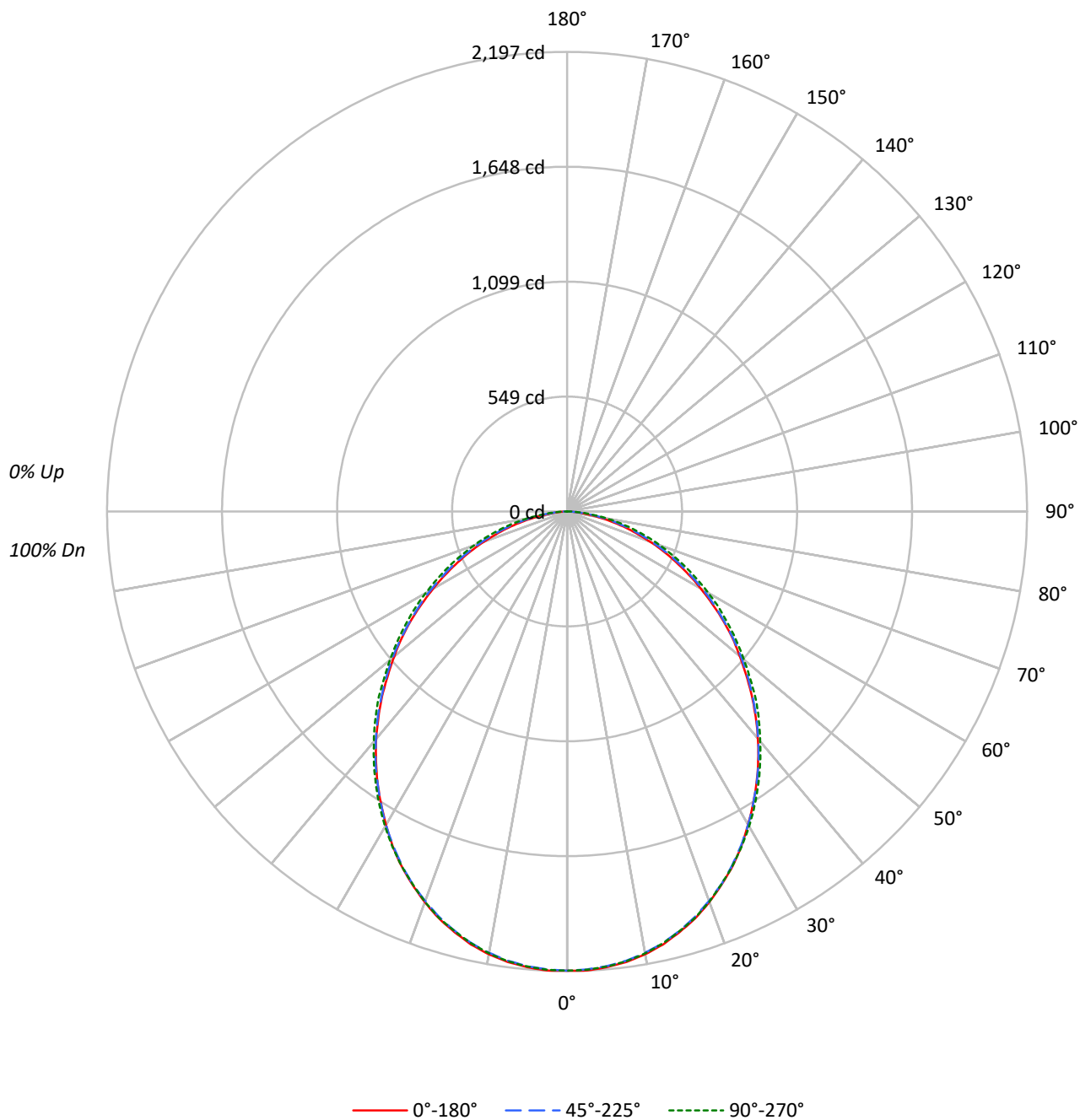
Lumens per Lamp: N/A
Luminaire Lumens: 5424.1 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44.8
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: P1214947
CATALOG NUMBER: 22-ID2-50-CNC-L840-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214947

CATALOG NUMBER: 22-ID2-50-CNC-L840-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		0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111			106	106	106		100
1	109	105	101	97	107	103	99	95	98	95	92			94	92	90		85
2	100	92	85	80	97	90	84	79	87	81	77			83	79	75		72
3	91	81	73	67	89	80	72	66	77	70	65			74	69	64		61
4	84	72	64	57	82	71	63	57	68	61	56			66	60	55		52
5	77	65	56	50	75	64	55	49	62	54	49			60	53	48		46
6	72	59	50	44	70	58	49	43	56	48	43			54	48	43		40
7	66	53	45	39	65	52	44	38	51	44	38			49	43	38		36
8	62	49	40	35	60	48	40	35	47	39	34			45	39	34		32
9	58	45	37	31	57	44	36	31	43	36	31			42	36	31		29
10	54	41	34	28	53	41	33	28	40	33	28			39	33	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5907	5907	5907
5°	5907	5893	5898
10°	5874	5853	5861
15°	5797	5781	5785
20°	5690	5674	5684
25°	5556	5541	5552
30°	5373	5375	5403
35°	5186	5189	5232
40°	4982	4987	5042
45°	4752	4773	4857
50°	4508	4549	4618
55°	4273	4296	4412
60°	3974	4052	4197
65°	3666	3775	3964
70°	3319	3461	3710
75°	2875	3111	3412
80°	2266	2661	2991
85°	1405	1874	2235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4857 cd/sqm

TEST NUMBER: P1214947
 CATALOG NUMBER: 22-ID2-50-CNC-L840-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.8
10°-20°	585.2	10.8
20°-30°	859.6	15.8
30°-40°	989.9	18.2
40°-50°	970.9	17.9
50°-60°	824.6	15.2
60°-70°	591.0	10.9
70°-80°	320.1	5.9
80°-90°	75.6	1.4
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°	1651.9	30.5
0°-40°	2641.8	48.7
0°-60°	4437.4	81.8
0°-90°	5424.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2187	2185	2181	2182	2184	208
15°	2081	2079	2075	2076	2077	586
25°	1871	1865	1866	1872	1870	860
35°	1579	1579	1580	1590	1593	987
45°	1249	1249	1254	1271	1276	962
55°	911	910	916	933	940	813
65°	576	580	593	614	623	571
75°	276	283	299	320	328	294
85°	46	50	61	70	72	61
90°	0	0	0	0	0	

TEST NUMBER: P1214947

CATALOG NUMBER: 22-ID2-50-CNC-L840-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2196.6	2193.1	2191.1	2191.8	2192.5
5°	2186.9	2184.9	2181.4	2182.1	2183.5
7.5°	2171.8	2169.0	2165.6	2166.3	2168.3
10°	2149.7	2146.3	2142.1	2142.8	2144.9
12.5°	2120.1	2116.6	2113.2	2112.5	2114.5
15°	2080.8	2079.4	2075.2	2075.9	2076.6
17.5°	2038.7	2033.9	2031.8	2033.2	2035.9
20°	1987.0	1982.2	1981.5	1982.9	1984.9
22.5°	1930.5	1926.3	1927.7	1929.1	1927.7
25°	1871.2	1865.0	1866.3	1871.9	1869.8
27.5°	1803.6	1801.5	1799.5	1806.4	1805.7
30°	1729.1	1729.8	1729.8	1738.8	1738.8
32.5°	1654.0	1655.4	1655.4	1665.7	1667.1
35°	1578.8	1578.8	1579.5	1589.9	1592.6
37.5°	1499.6	1500.9	1503.0	1510.6	1515.4
40°	1418.2	1418.2	1419.6	1433.4	1435.4
42.5°	1333.4	1334.8	1338.2	1351.3	1356.8
45°	1248.6	1248.6	1254.1	1271.3	1276.2
47.5°	1160.3	1165.2	1170.7	1187.9	1187.2
50°	1076.9	1083.1	1086.6	1101.1	1103.1
52.5°	996.3	996.3	1001.1	1018.3	1022.5
55°	910.8	910.1	915.6	932.8	940.4
57.5°	821.8	826.0	833.5	853.5	861.8
60°	738.4	741.8	752.9	771.5	779.8
62.5°	655.7	661.2	669.5	690.8	697.7
65°	575.7	579.8	592.9	613.6	622.6
67.5°	499.2	501.9	515.0	536.4	544.0
70°	421.9	427.5	439.9	461.2	471.6
72.5°	344.7	353.0	368.9	390.2	399.2
75°	276.5	282.7	299.2	319.9	328.2
77.5°	208.9	217.2	234.4	251.6	261.3
80°	146.2	156.5	171.7	186.8	193.0
82.5°	91.7	100.7	114.4	125.5	128.9
85°	45.5	50.3	60.7	69.6	72.4
87.5°	15.2	16.5	19.3	23.4	24.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1214947

CATALOG NUMBER: 22-ID2-50-CNC-L840-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	16.87	18.46	17.23	18.77	19.08	17.12	18.71	17.48	19.02	19.33
	3H	18.43	19.86	18.81	20.19	20.55	18.81	20.24	19.19	20.57	20.93
	4H	18.96	20.30	19.36	20.65	21.03	19.44	20.79	19.84	21.14	21.52
	6H	19.29	20.54	19.70	20.90	21.29	19.90	21.15	20.32	21.52	21.91
	8H	19.37	20.56	19.79	20.95	21.35	20.04	21.23	20.46	21.62	22.01
	12H	19.40	20.54	19.83	20.92	21.35	20.11	21.25	20.54	21.63	22.06
4H	2H	17.46	18.80	17.86	19.15	19.53	17.66	19.00	18.06	19.35	19.73
	3H	19.23	20.36	19.64	20.75	21.15	19.57	20.69	19.98	21.09	21.49
	4H	19.87	20.89	20.31	21.30	21.74	20.33	21.35	20.76	21.76	22.20
	6H	20.31	21.20	20.77	21.64	22.10	20.92	21.80	21.37	22.24	22.70
	8H	20.42	21.25	20.88	21.69	22.16	21.09	21.92	21.55	22.36	22.83
	12H	20.48	21.22	20.96	21.69	22.16	21.20	21.94	21.68	22.42	22.89
8H	4H	20.16	20.99	20.62	21.43	21.90	20.57	21.40	21.03	21.84	22.31
	6H	20.70	21.39	21.20	21.87	22.35	21.26	21.95	21.76	22.44	22.91
	8H	20.86	21.47	21.37	21.98	22.47	21.50	22.12	22.01	22.62	23.11
	12H	20.95	21.50	21.46	21.99	22.55	21.67	22.22	22.18	22.71	23.27
12H	4H	20.19	20.93	20.67	21.41	21.88	20.58	21.33	21.07	21.80	22.27
	6H	20.75	21.36	21.26	21.87	22.36	21.29	21.90	21.80	22.41	22.90
	8H	20.95	21.50	21.46	21.99	22.55	21.58	22.12	22.08	22.61	23.17

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

Report Prepared for

Cooper Lighting Solutions

Corelite

Report Number: SP1-2506-458-5

Test Date: 08/26/2025

Luminaire Tested: 22ID2-55-CFR1-L840-U

Data in this report applies to families of products including 22ID2-55-CFR1-L840-U

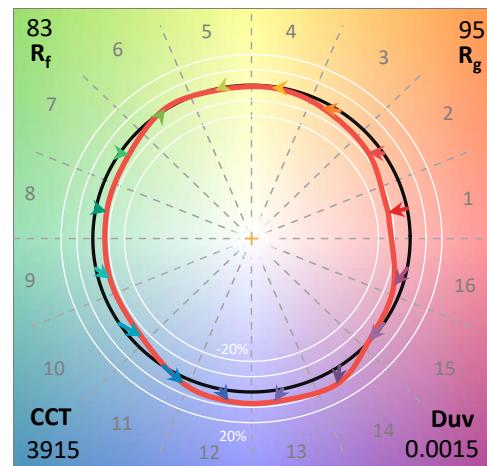
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2506-458-5
 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-L840-U**
 Description: 2X2 CGTX WITH INDEPTH FRAME AND CFR1 LENS - 5500 LUMEN 4000K 80CRI

Spectral Parameters

CCT (K): 3915
 CIE u' : 0.2259
 CIE v' : 0.5051
 Duv: 0.0015
 CIE x: 0.3854
 CIE y: 0.3830
 CIE z: 0.2316
 Peak Wavelength (nm): 453
 Dominant Wavelength (nm): 578
 Purity: 30.6207
 R_f: 83.2
 R_g: 94.6

CRI (Ra): 82.3
 R1: 80.6
 R2: 88.9
 R3: 94.6
 R4: 80.5
 R5: 80.0
 R6: 84.0
 R7: 86.1
 R8: 64.0
 R9: 7.6
 R10: 72.9
 R11: 78.7
 R12: 57.3
 R13: 82.7
 R14: 97.1
 R15: 74.3



Test Conditions

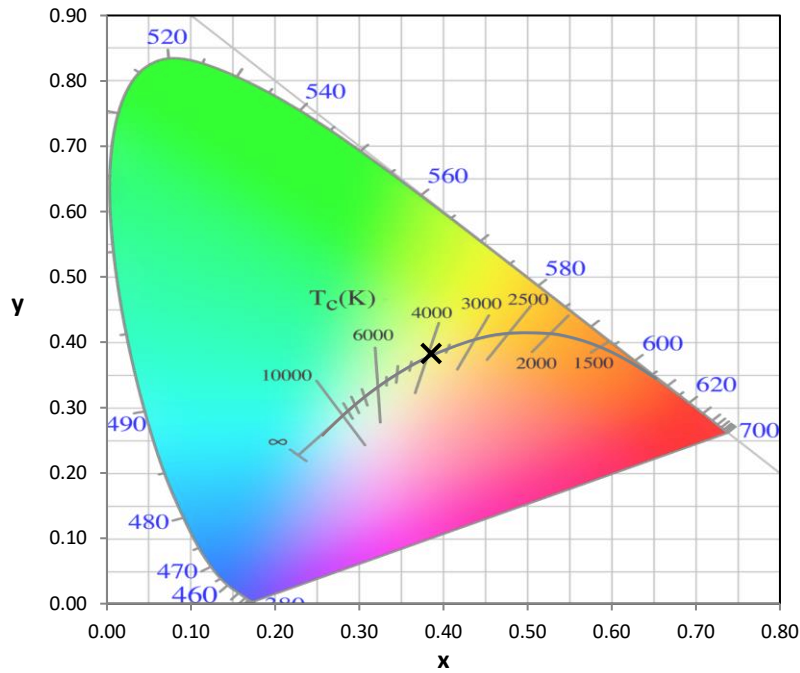
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2506-458-5

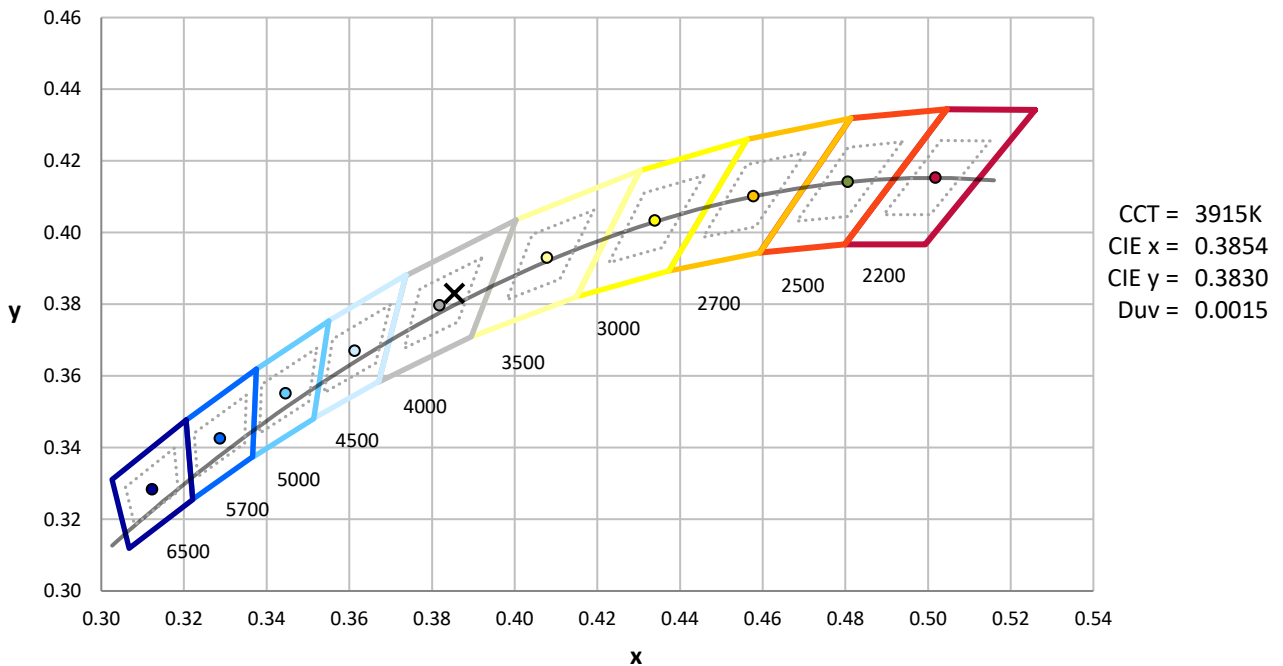
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-458-5

CIE 1931 Chromaticity Diagram



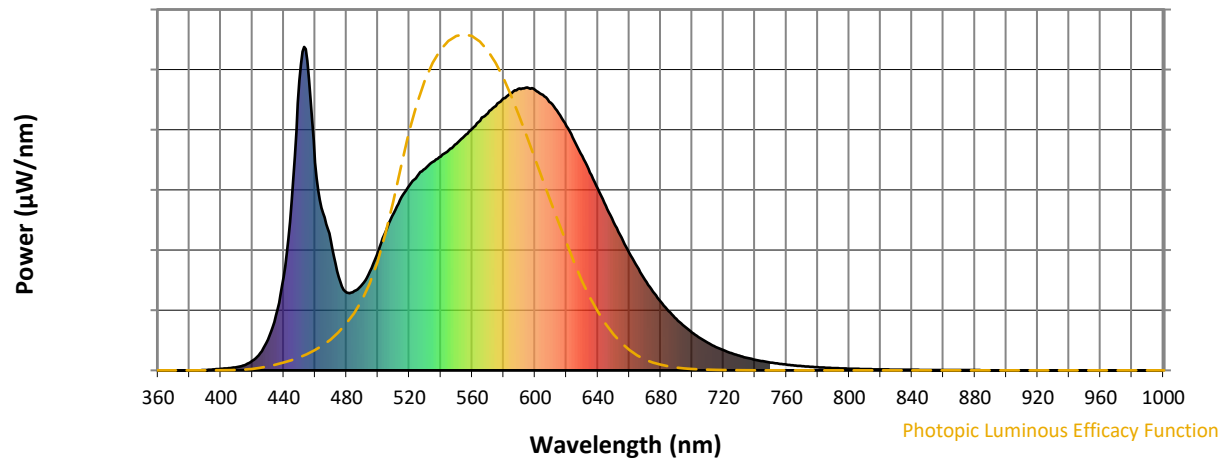
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-5

Photopic Flux vs. Wavelength

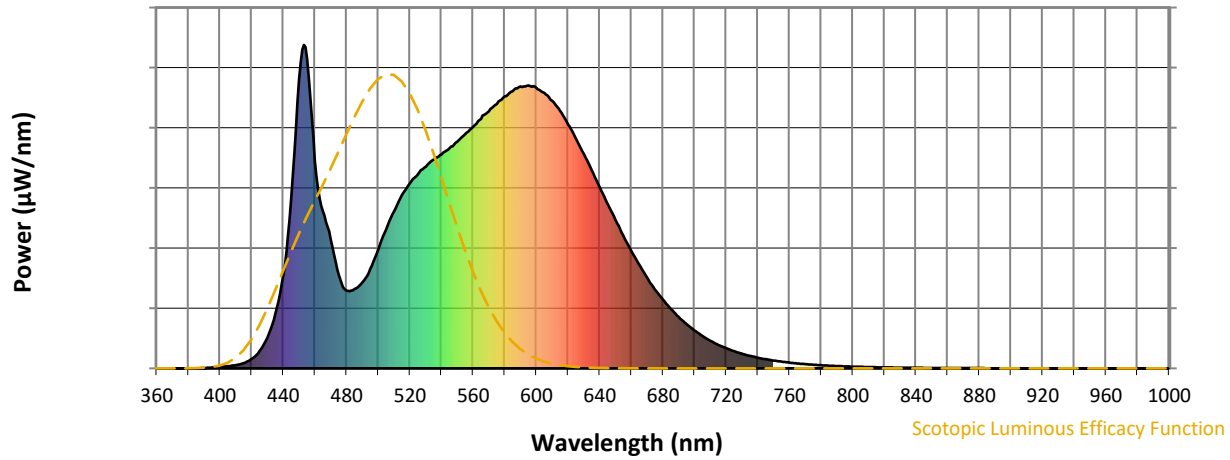


Photopic Lumens: NR

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	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-5

Scotopic Flux vs. Wavelength



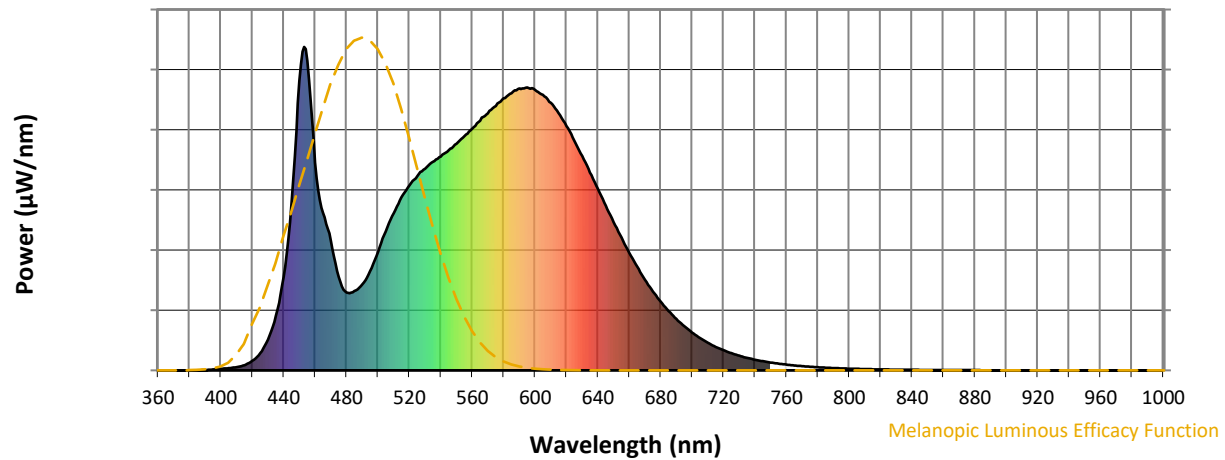
Scotopic Lumens: NR

S/P: 1.65

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	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.36

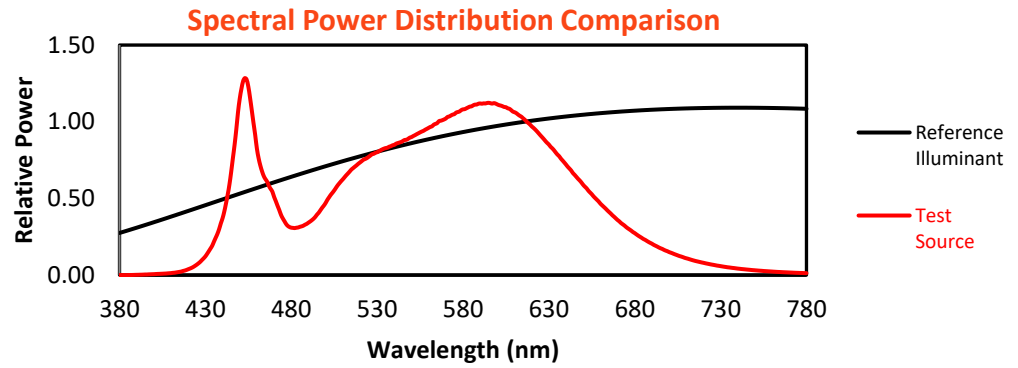
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	266	NR	620	755	NR	750	24	NR	880	1	NR
365	0	NR	495	307	NR	625	710	NR	755	21	NR	885	0	NR
370	0	NR	500	366	NR	630	663	NR	760	18	NR	890	0	NR
375	0	NR	505	430	NR	635	612	NR	765	15	NR	895	0	NR
380	0	NR	510	486	NR	640	561	NR	770	13	NR	900	0	NR
385	0	NR	515	536	NR	645	509	NR	775	11	NR	905	0	NR
390	1	NR	520	571	NR	650	458	NR	780	10	NR	910	0	NR
395	3	NR	525	600	NR	655	410	NR	785	8	NR	915	0	NR
400	5	NR	530	624	NR	660	363	NR	790	7	NR	920	0	NR
405	7	NR	535	645	NR	665	321	NR	795	6	NR	925	0	NR
410	10	NR	540	661	NR	670	280	NR	800	5	NR	930	0	NR
415	16	NR	545	681	NR	675	244	NR	805	5	NR	935	0	NR
420	30	NR	550	701	NR	680	213	NR	810	4	NR	940	0	NR
425	53	NR	555	724	NR	685	183	NR	815	3	NR	945	0	NR
430	95	NR	560	747	NR	690	159	NR	820	3	NR	950	0	NR
435	170	NR	565	772	NR	695	136	NR	825	3	NR	955	0	NR
440	289	NR	570	795	NR	700	117	NR	830	2	NR	960	0	NR
445	522	NR	575	817	NR	705	100	NR	835	2	NR	965	0	NR
450	895	NR	580	841	NR	710	85	NR	840	2	NR	970	0	NR
455	957	NR	585	857	NR	715	72	NR	845	1	NR	975	0	NR
460	642	NR	590	871	NR	720	62	NR	850	1	NR	980	0	NR
465	487	NR	595	875	NR	725	53	NR	855	1	NR	985	0	NR
470	397	NR	600	866	NR	730	45	NR	860	1	NR	990	0	NR
475	289	NR	605	852	NR	735	39	NR	865	1	NR	995	0	NR
480	241	NR	610	827	NR	740	33	NR	870	1	NR	1000	0	NR
485	245	NR	615	796	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2506-458-5

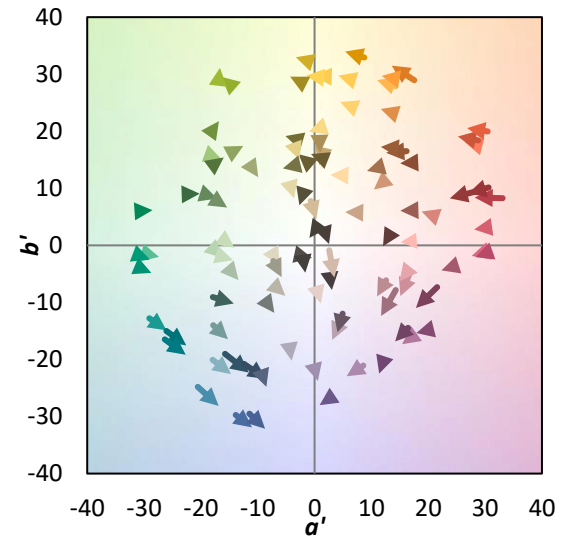
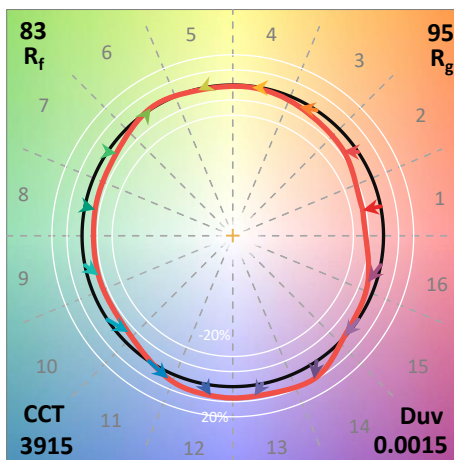
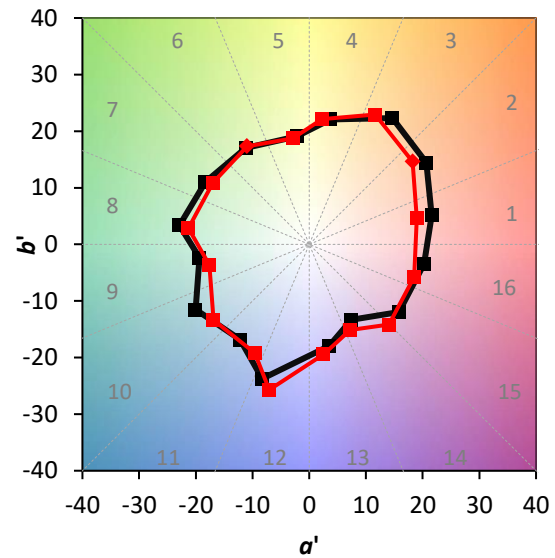
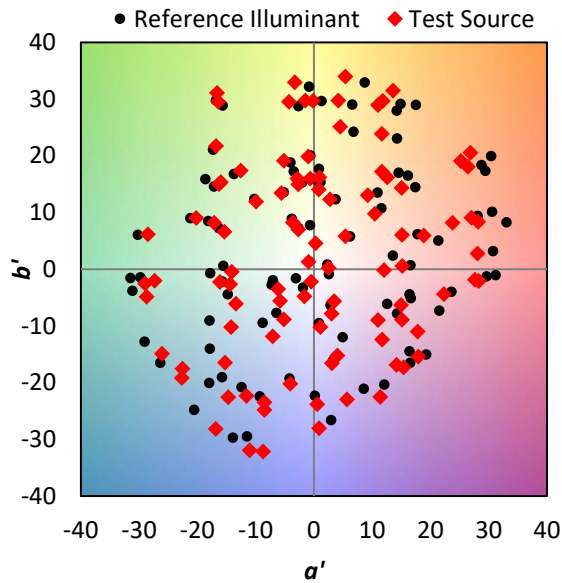
TM-30-18

Summary

$R_f = 83.2$
 $R_g = 94.6$
 $CIE R_a = 82.3$
 $R_9 = 7.6$

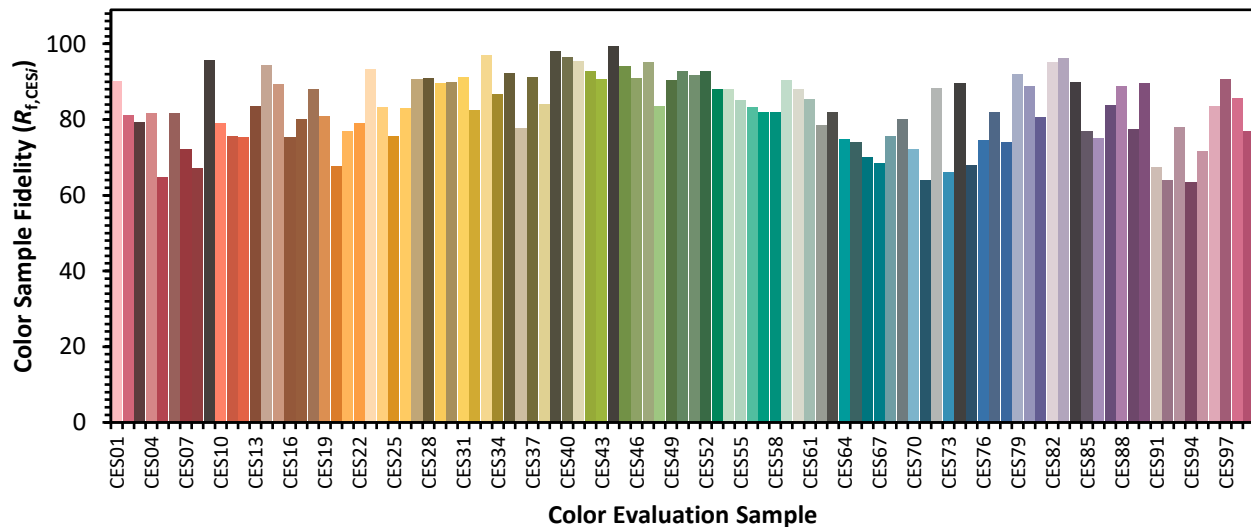


Color Vector Graphics

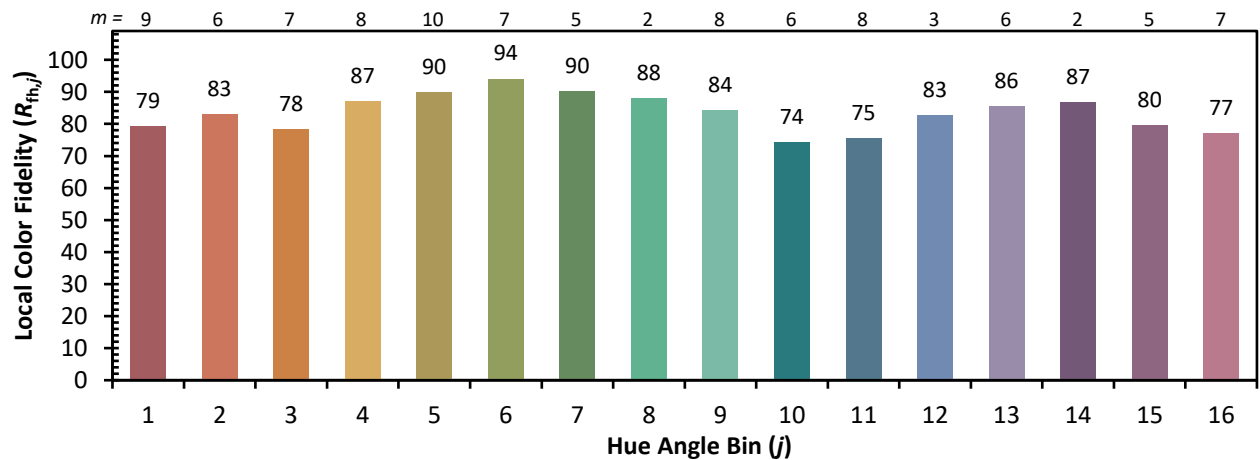
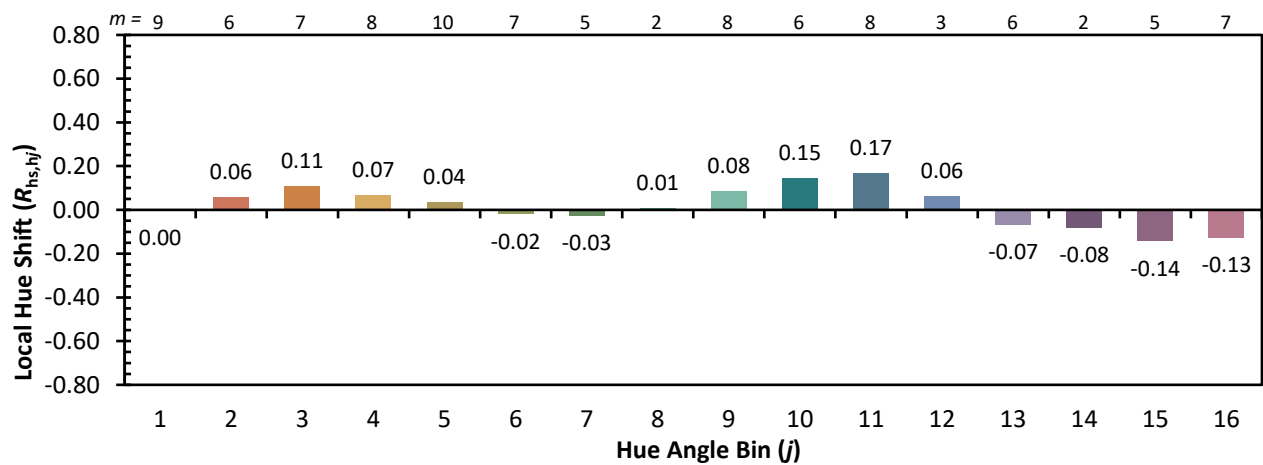
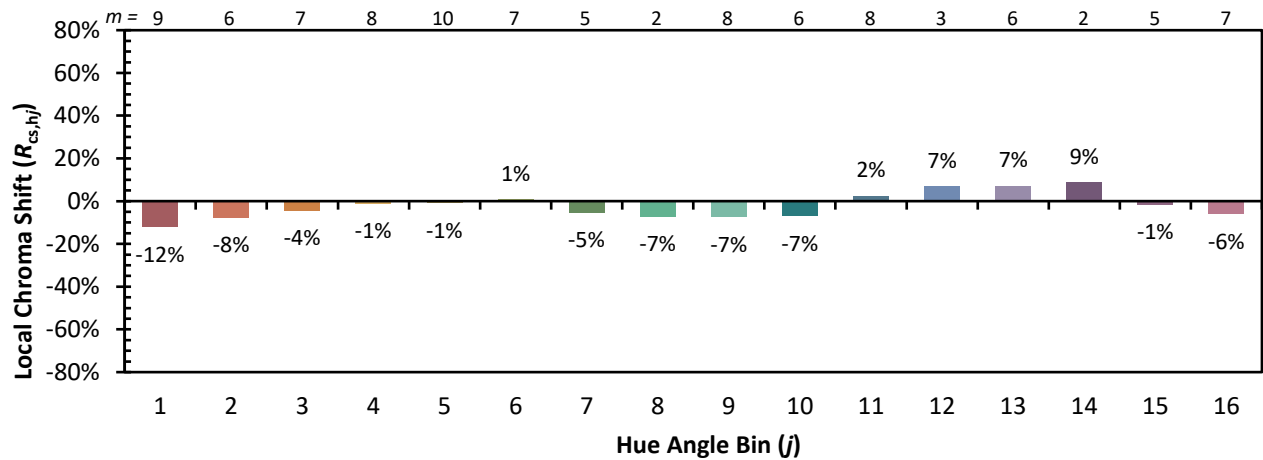


Individual Sample Fidelity Index ($R_{f,i}$)

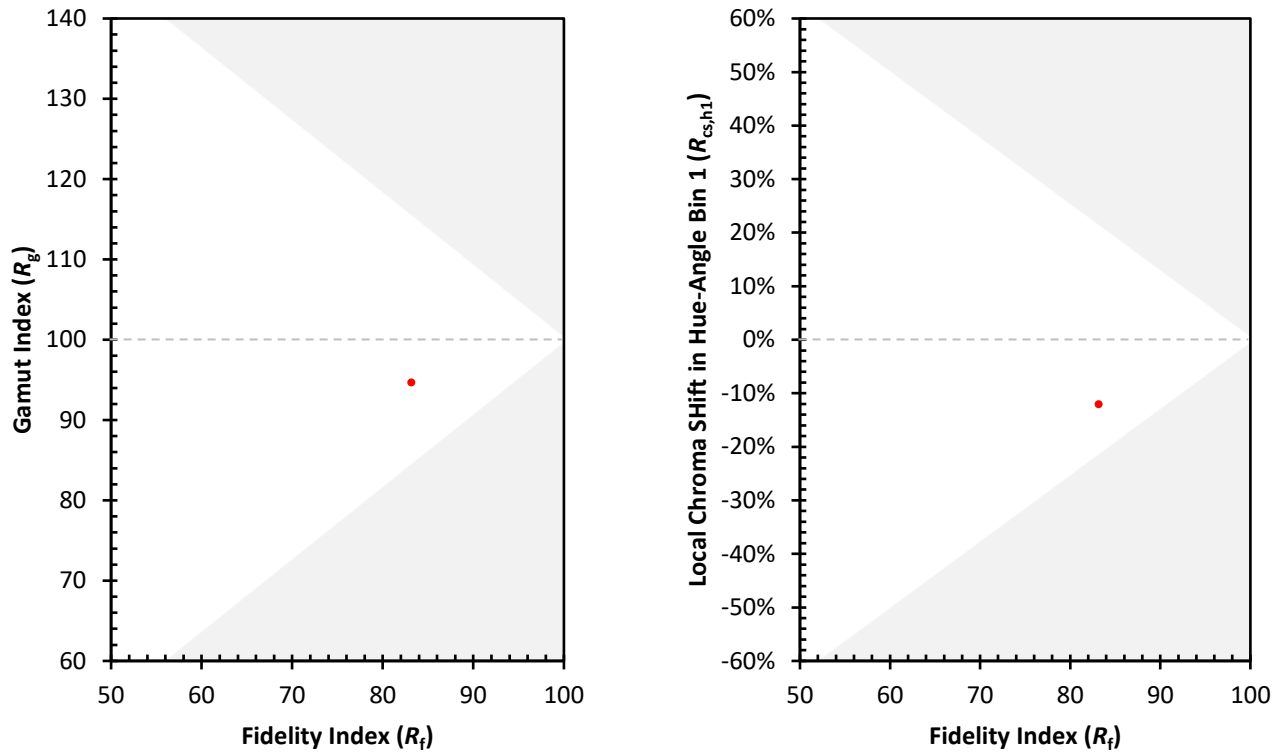
CES01 = 86	CES26 = 83	CES51 = 92	CES76 = 75
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 82
CES03 = 31	CES28 = 91	CES53 = 88	CES78 = 74
CES04 = 70	CES29 = 90	CES54 = 88	CES79 = 92
CES05 = 48	CES30 = 90	CES55 = 85	CES80 = 89
CES06 = 50	CES31 = 91	CES56 = 83	CES81 = 81
CES07 = 41	CES32 = 83	CES57 = 82	CES82 = 95
CES08 = 40	CES33 = 97	CES58 = 82	CES83 = 96
CES09 = 29	CES34 = 87	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 88	CES85 = 77
CES11 = 57	CES36 = 78	CES61 = 85	CES86 = 75
CES12 = 63	CES37 = 91	CES62 = 79	CES87 = 84
CES13 = 42	CES38 = 84	CES63 = 82	CES88 = 89
CES14 = 74	CES39 = 98	CES64 = 75	CES89 = 77
CES15 = 71	CES40 = 96	CES65 = 74	CES90 = 90
CES16 = 47	CES41 = 95	CES66 = 70	CES91 = 67
CES17 = 49	CES42 = 93	CES67 = 69	CES92 = 64
CES18 = 56	CES43 = 91	CES68 = 76	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 80	CES94 = 63
CES20 = 65	CES45 = 94	CES70 = 72	CES95 = 72
CES21 = 86	CES46 = 91	CES71 = 64	CES96 = 84
CES22 = 78	CES47 = 95	CES72 = 88	CES97 = 91
CES23 = 91	CES48 = 83	CES73 = 66	CES98 = 86
CES24 = 90	CES49 = 90	CES74 = 90	CES99 = 77
CES25 = 71	CES50 = 93	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)