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: CORELITE

Report Number: P1216907

Luminaire Tested: 14-ID2-80-CFR2-L940-U

Issue Date: 12/5/2025

Report Generated By 670265710 / DESKTOP-98SHLC4

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

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1216907
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2508-507-14)
Test Lab:	INNOVATION CENTER
Issue Date:	12/5/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	14-ID2-80-CFR2-L940-U
Description:	1X4 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:	6612.3 lumens
Efficiency:	N/A
Efficacy:	94.5 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.16 / 1.28
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	70
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

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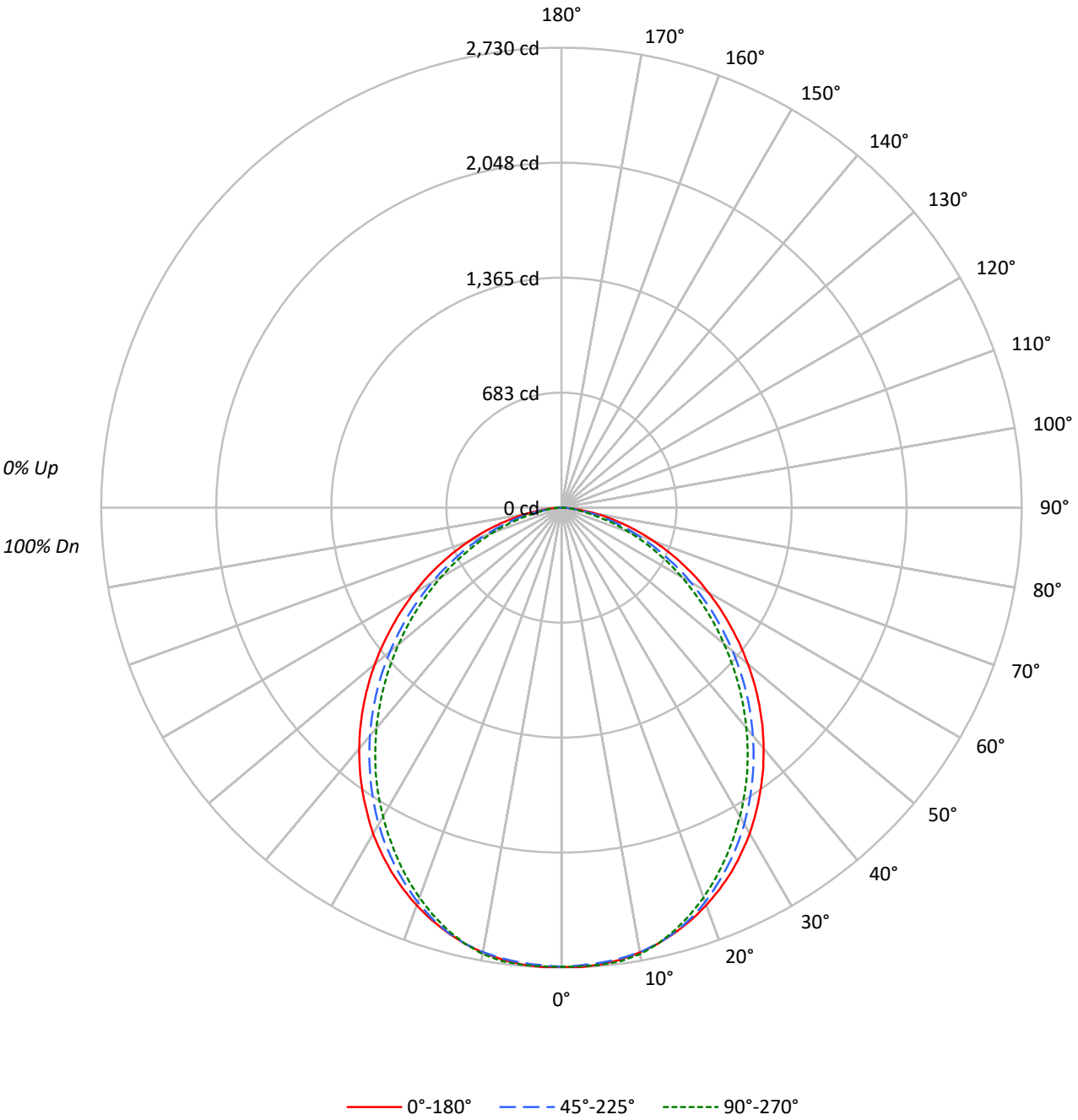
TEST NUMBER: P1216907
CATALOG NUMBER: 14-ID2-80-CFR2-L940-U

Luminous Intensity Polar Plot



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TEST NUMBER: P1216907
CATALOG NUMBER: 14-ID2-80-CFR2-L940-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7334	7334	7334
5°	7350	7324	7356
10°	7326	7321	7353
15°	7275	7266	7236
20°	7192	7137	7054
25°	7084	6950	6829
30°	6943	6739	6579
35°	6758	6486	6310
40°	6555	6208	5996
45°	6320	5899	5654
50°	6049	5550	5275
55°	5735	5176	4874
60°	5412	4764	4434
65°	5048	4309	3940
70°	4589	3812	3389
75°	4021	3239	2669
80°	3247	2397	1864
85°	2189	1757	1559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6320 cd/sqm

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Scaled Data Report

TEST NUMBER: P1216907
CATALOG NUMBER: 14-ID2-80-CFR2-L940-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	3.9
10°-20°	733.9	11.1
20°-30°	1079.3	16.3
30°-40°	1241.0	18.8
40°-50°	1206.4	18.2
50°-60°	1000.7	15.1
60°-70°	685.8	10.4
70°-80°	336.0	5.1
80°-90°	71.0	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°	2071.4	31.3
0°-40°	3312.4	50.1
0°-60°	5519.4	83.5
0°-90°	6612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6612.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2725	2725	2725	2725	2725	
5°	2721	2718	2711	2716	2723	258
15°	2611	2614	2608	2598	2598	736
25°	2386	2389	2341	2310	2300	1098
35°	2057	2046	1974	1935	1921	1286
45°	1661	1633	1550	1503	1486	1280
55°	1222	1183	1103	1058	1039	1095
65°	793	743	677	638	619	785
75°	387	354	312	272	257	412
85°	71	62	57	53	50	91
90°	0	0	0	0	0	

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TEST NUMBER: P1216907
CATALOG NUMBER: 14-ID2-80-CFR2-L940-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2725.3	2725.3	2725.3	2725.3	2725.3
2.5°	2729.6	2725.3	2718.8	2721.0	2725.3
5°	2721.0	2717.8	2711.3	2715.6	2723.1
7.5°	2704.9	2702.7	2698.4	2704.9	2714.5
10°	2681.2	2680.2	2679.1	2683.4	2690.9
12.5°	2650.1	2650.1	2650.1	2646.9	2650.1
15°	2611.4	2613.6	2608.2	2597.5	2597.5
17.5°	2565.2	2569.5	2555.6	2538.4	2534.1
20°	2511.5	2516.9	2492.2	2467.5	2463.2
22.5°	2451.4	2456.7	2419.1	2390.1	2384.8
25°	2385.8	2389.1	2340.7	2309.6	2299.9
27.5°	2311.7	2311.7	2258.0	2222.6	2209.7
30°	2234.4	2230.1	2168.8	2131.2	2117.3
32.5°	2146.3	2140.9	2073.2	2034.6	2020.6
35°	2057.1	2046.4	1974.4	1934.7	1920.7
37.5°	1963.7	1948.6	1872.4	1830.5	1814.4
40°	1865.9	1845.5	1767.1	1723.0	1706.9
42.5°	1764.9	1741.3	1659.7	1616.7	1596.3
45°	1660.7	1632.8	1550.1	1502.8	1485.6
47.5°	1553.3	1522.2	1438.4	1393.3	1372.8
50°	1444.8	1409.4	1325.6	1280.5	1260.1
52.5°	1334.2	1293.4	1213.9	1168.7	1149.4
55°	1222.5	1182.7	1103.2	1058.1	1038.8
57.5°	1116.1	1069.9	992.6	950.7	929.2
60°	1005.5	959.3	885.2	843.3	823.9
62.5°	901.3	849.7	779.9	739.1	719.7
65°	792.8	743.4	676.8	638.1	618.7
67.5°	686.4	640.2	579.0	539.3	523.1
70°	583.3	539.3	484.5	446.9	430.8
72.5°	483.4	445.8	397.5	356.6	342.7
75°	386.7	354.5	311.5	271.8	256.7
77.5°	295.4	269.6	228.8	190.1	175.1
80°	209.5	190.1	154.7	122.5	120.3
82.5°	135.4	121.4	92.4	88.1	85.9
85°	70.9	62.3	56.9	52.6	50.5
87.5°	22.6	22.6	22.6	18.3	17.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1216907
CATALOG NUMBER: 14-ID2-80-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	18.06	19.63	18.43	19.95	20.26	17.16	18.72	17.52	19.04	19.35
	3H	19.66	21.07	20.04	21.40	21.76	18.50	19.91	18.87	20.23	20.59
	4H	20.22	21.54	20.62	21.89	22.27	18.89	20.21	19.29	20.56	20.94
	6H	20.58	21.80	20.99	22.17	22.56	19.06	20.29	19.47	20.65	21.04
	8H	20.67	21.84	21.10	22.23	22.63	19.10	20.27	19.53	20.66	21.06
	12H	20.71	21.83	21.14	22.21	22.64	19.13	20.24	19.56	20.63	21.05
4H	2H	18.49	19.81	18.89	20.16	20.54	17.74	19.07	18.14	19.41	19.79
	3H	20.29	21.39	20.70	21.78	22.19	19.28	20.38	19.69	20.78	21.18
	4H	20.96	21.95	21.39	22.36	22.80	19.76	20.75	20.19	21.16	21.60
	6H	21.43	22.29	21.88	22.73	23.19	20.00	20.87	20.46	21.31	21.77
	8H	21.55	22.36	22.01	22.80	23.27	20.07	20.87	20.53	21.32	21.78
	12H	21.62	22.34	22.10	22.82	23.29	20.11	20.83	20.59	21.31	21.78
8H	4H	21.10	21.91	21.57	22.35	22.82	20.01	20.82	20.47	21.26	21.73
	6H	21.65	22.32	22.15	22.81	23.28	20.32	20.98	20.81	21.47	21.95
	8H	21.82	22.42	22.33	22.93	23.41	20.42	21.01	20.93	21.52	22.01
	12H	21.94	22.46	22.44	22.95	23.52	20.50	21.03	21.01	21.52	22.08
12H	4H	21.10	21.82	21.58	22.29	22.76	20.03	20.75	20.51	21.23	21.70
	6H	21.64	22.24	22.15	22.75	23.23	20.34	20.94	20.86	21.45	21.94
	8H	21.85	22.38	22.36	22.87	23.43	20.48	21.01	20.99	21.50	22.06

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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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

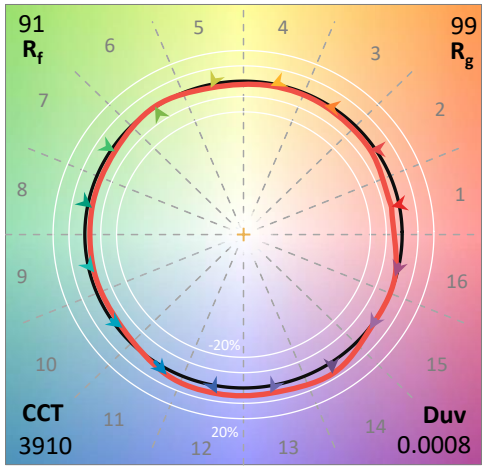
Test Information

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
Rf:	90.8
Rg:	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

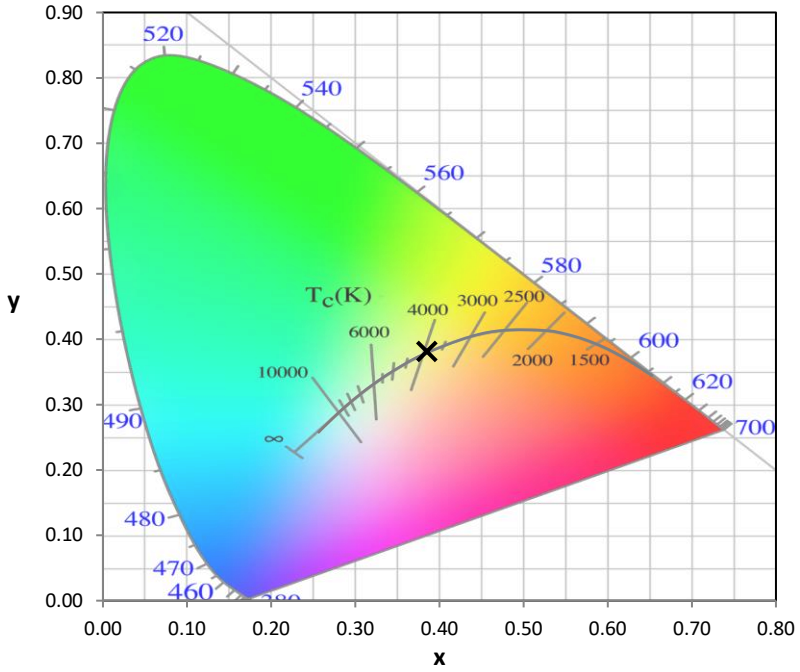
Stabilization Time:	31M
Operation Time:	1H 31M
Sphere Temperature (°C):	25.2.

REPORT NUMBER: SP1-2506-458-11

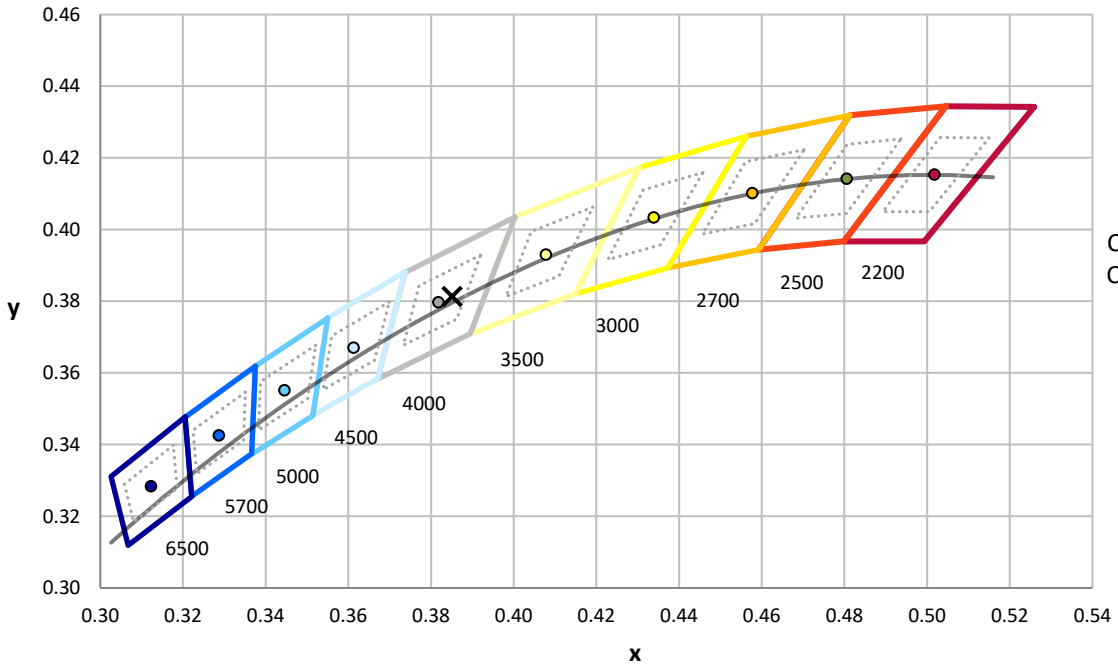
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

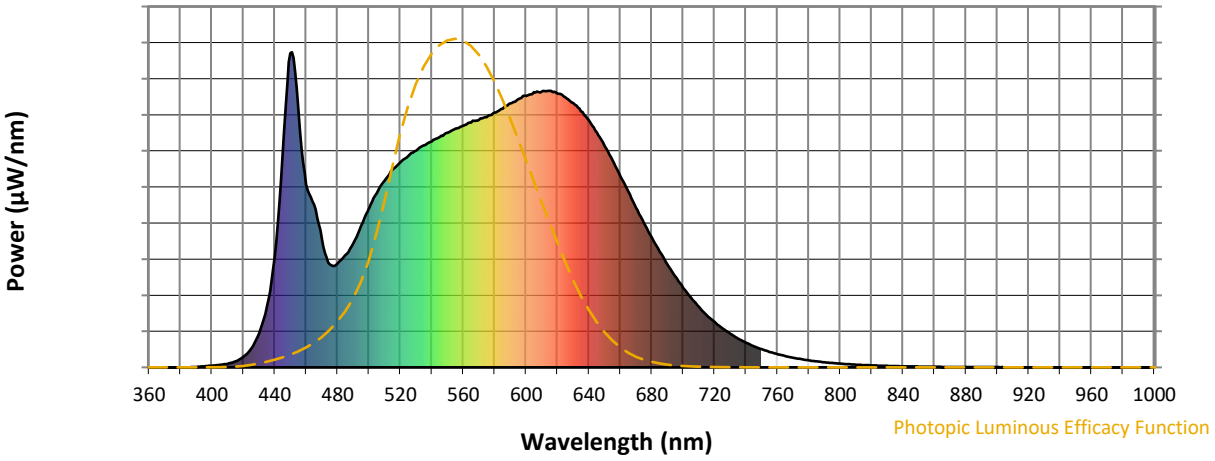


CCT = 3910K
CIE x = 0.3851
CIE y = 0.3813
Duv = 0.0008

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2506-458-11

Photopic Flux vs. Wavelength

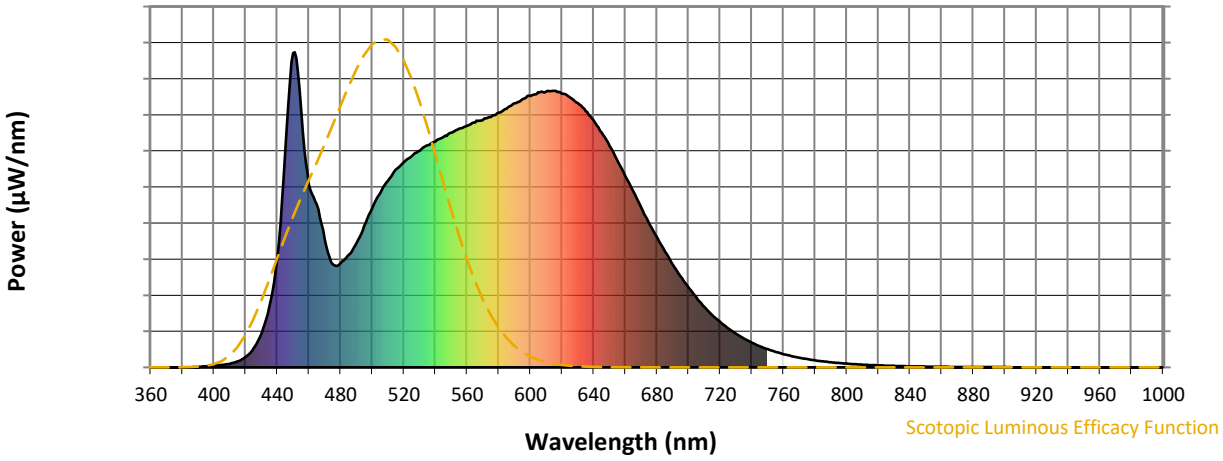


Photopic Lumens: NR

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

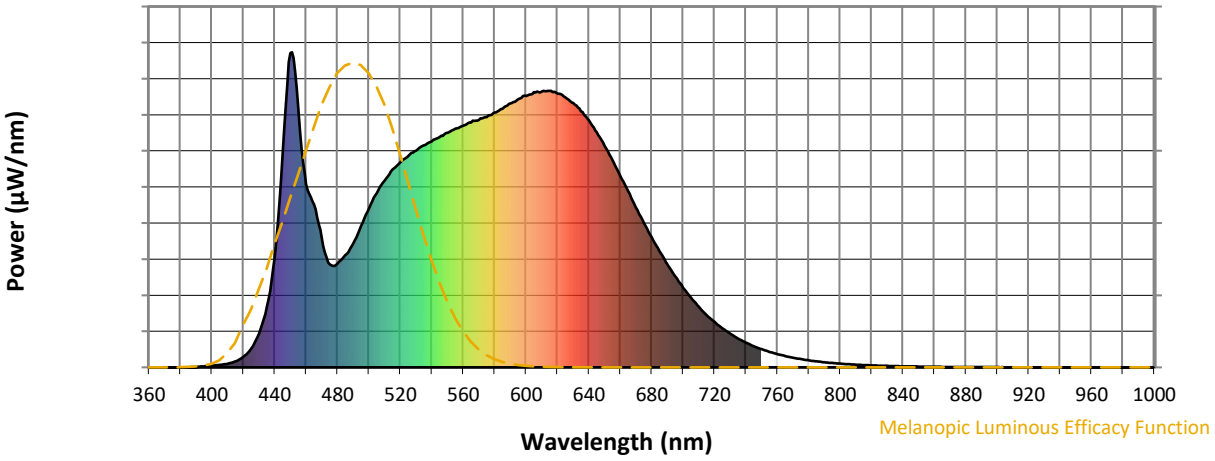


Scotopic Lumens: NR **S/P: 1.75**

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^/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			

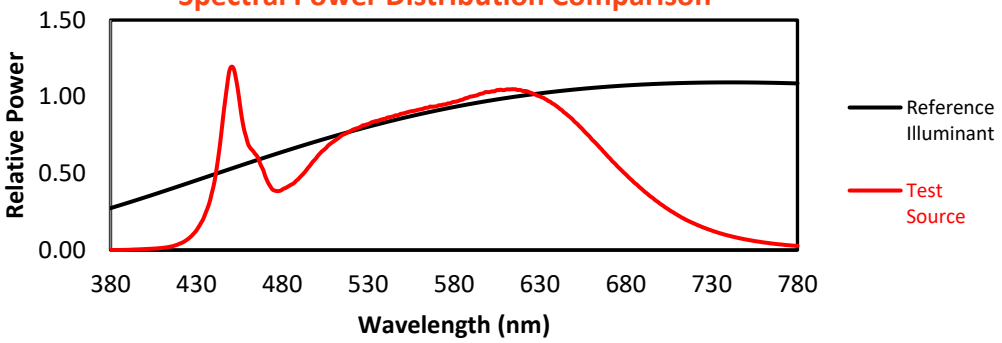
REPORT NUMBER: SP1-2506-458-11

TM-30-18

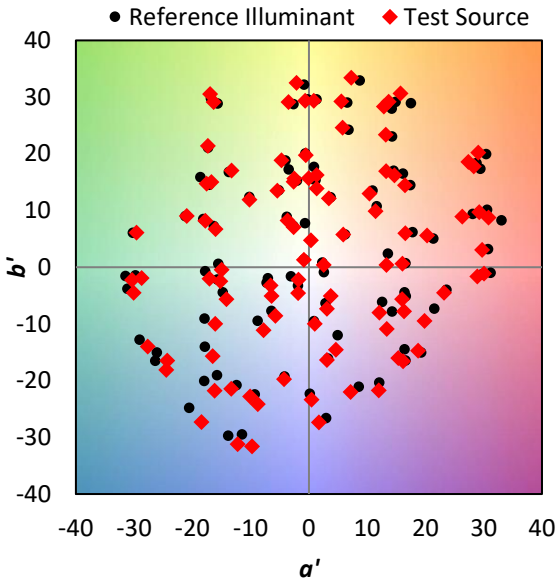
Summary

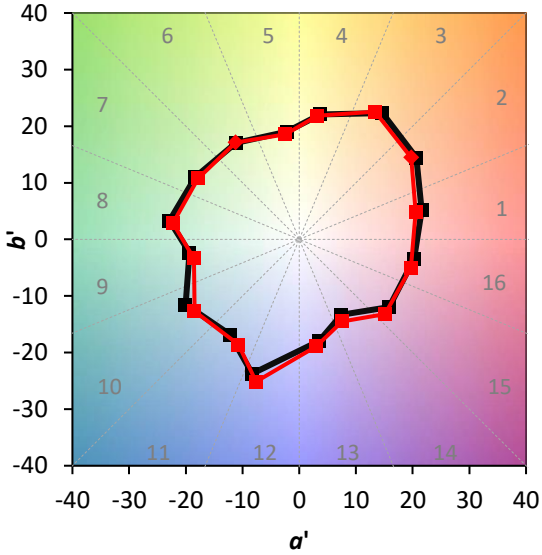
R_f = 90.8
R_g = 98.8
CIE R_a = 92.4
R_9 = 62.0

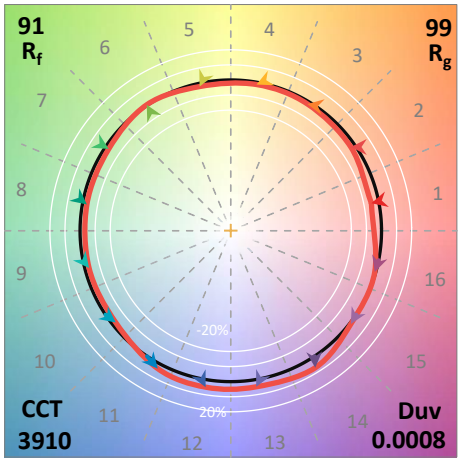
Spectral Power Distribution Comparison

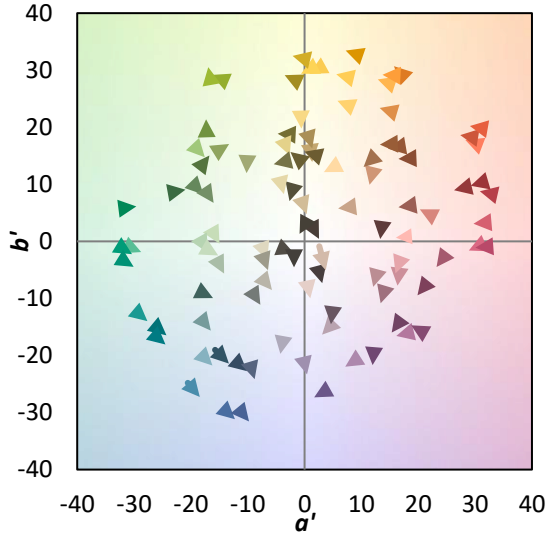


Color Vector Graphics







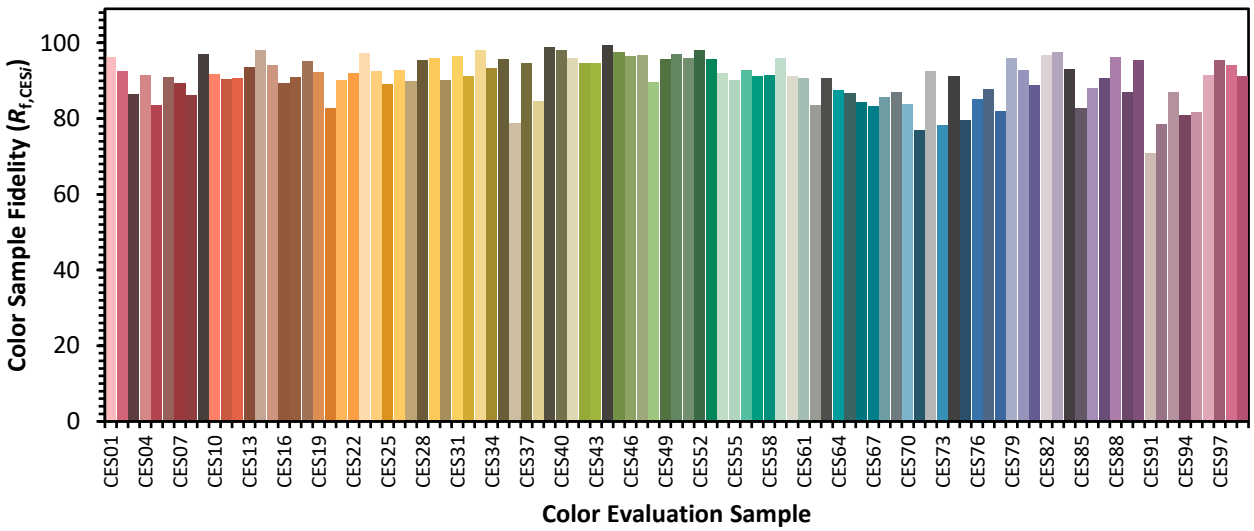


REPORT NUMBER: SP1-2506-458-11

TM-30-18

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

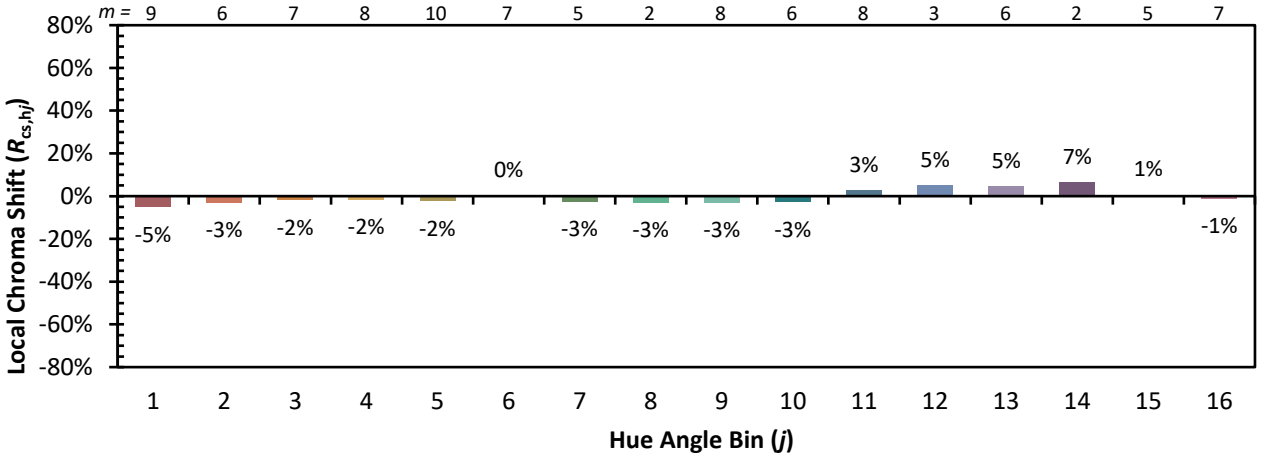
CES01 = 86	CES26 = 93	CES51 = 96	CES76 = 85
CES02 = 62	CES27 = 90	CES52 = 98	CES77 = 88
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 82
CES04 = 69	CES29 = 96	CES54 = 92	CES79 = 96
CES05 = 49	CES30 = 90	CES55 = 90	CES80 = 93
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 91	CES57 = 91	CES82 = 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	

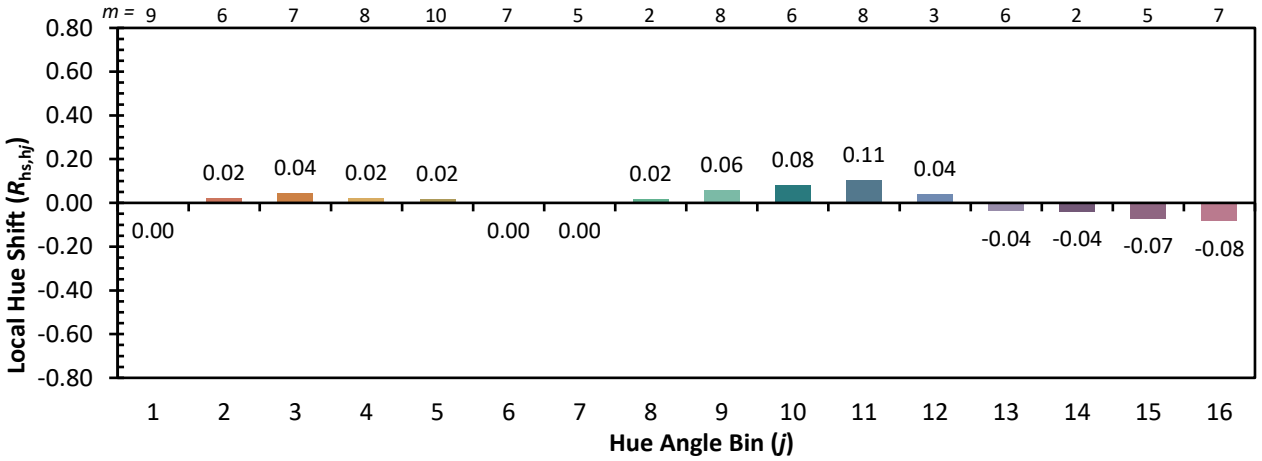


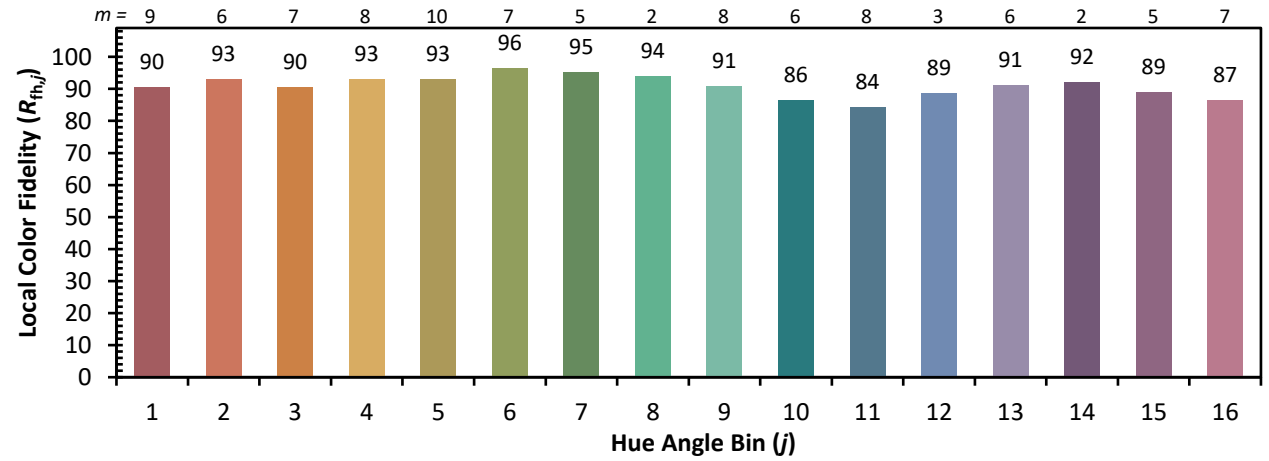
REPORT NUMBER: SP1-2506-458-11

TM-30-18

Color Rendition by Hue-Angle Bin



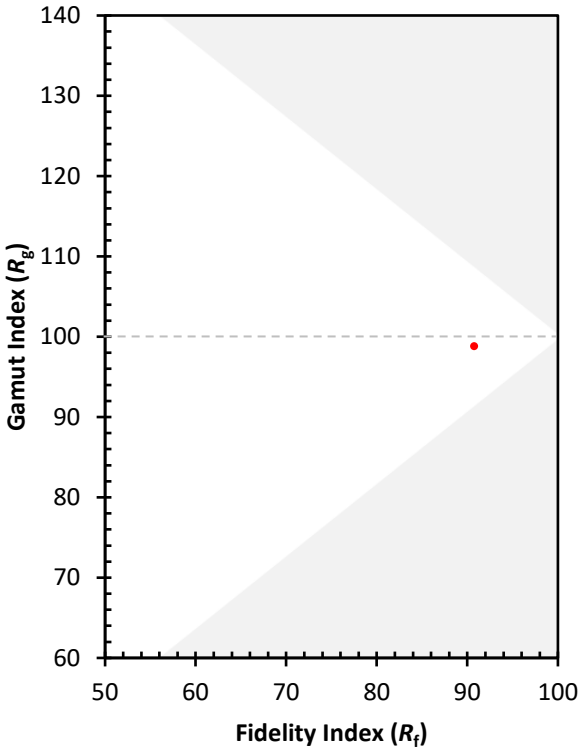


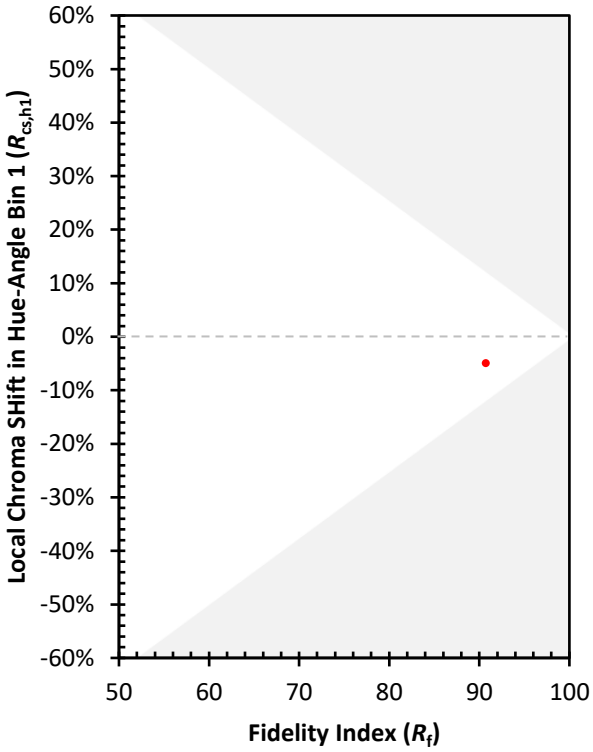


REPORT NUMBER: SP1-2506-458-11

TM-30-18

Measure Comparisons





(END OF REPORT)