

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: FAIL-SAFE

Report Number: P1356927

Luminaire Tested: 2ASL4-35VHE-3-35-UNV

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 2ASL4-35VHE-3-35-UNV
Description: 2FT 3500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

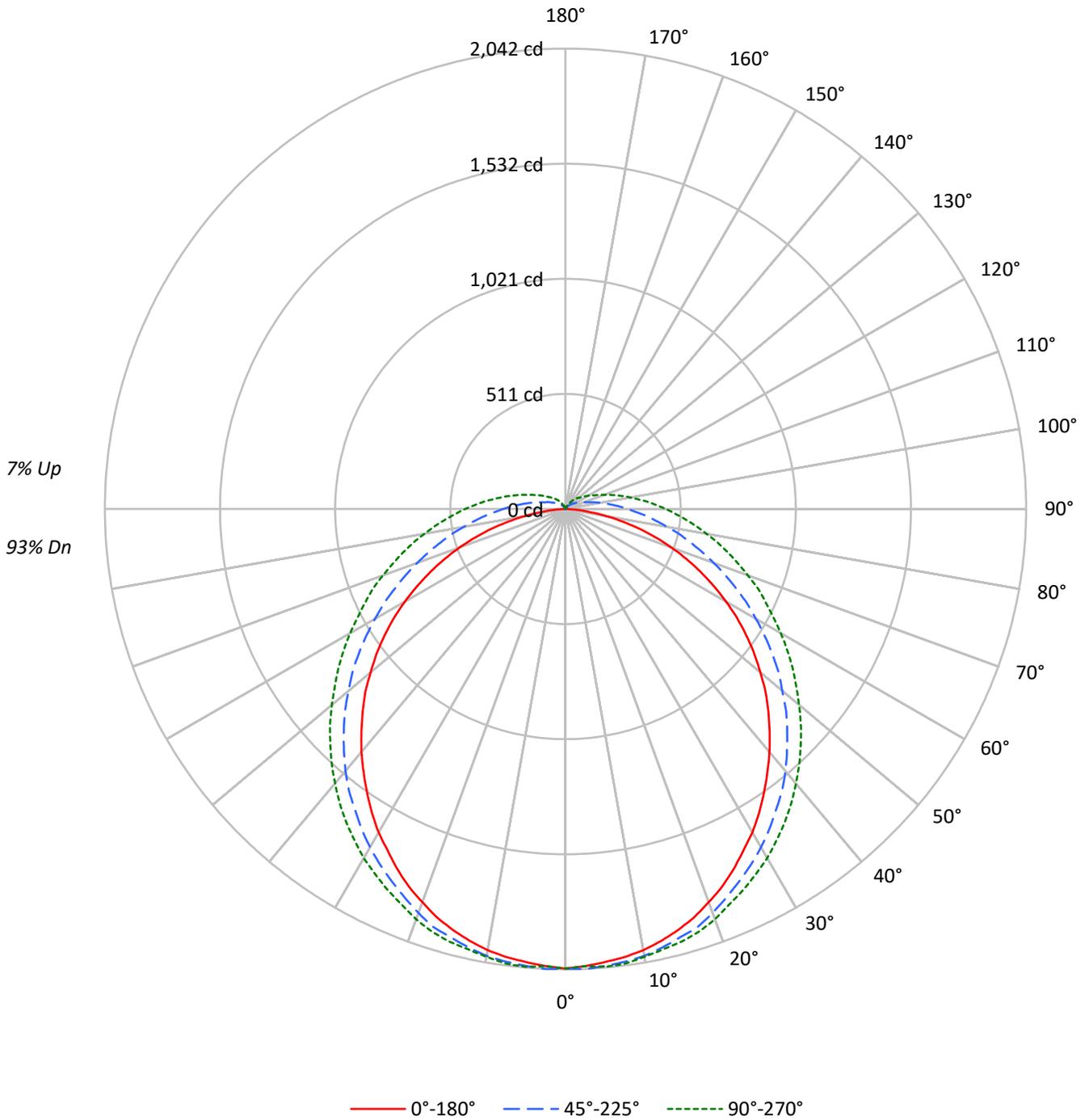
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6930.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P1356927
CATALOG NUMBER: 2ASL4-35VHE-3-35-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P1356927
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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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33255	33255	33255
5°	32884	32578	32494
10°	32624	31895	31672
15°	32186	31063	30976
20°	31620	30264	30190
25°	30975	29278	29297
30°	30294	28416	28540
35°	29468	27448	27700
40°	28696	26557	26813
45°	27865	25490	25924
50°	26923	24347	25000
55°	25896	23250	24170
60°	24585	21976	23325
65°	22931	20744	22626
70°	20839	19513	22079
75°	17862	18367	21703
80°	13488	17448	21542
85°	7434	17066	21861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27865 cd/sqm



TEST NUMBER: P1356927
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	2.8
10°-20°	554.9	8.0
20°-30°	839.0	12.1
30°-40°	1015.9	14.7
40°-50°	1067.0	15.4
50°-60°	995.5	14.4
60°-70°	822.7	11.9
70°-80°	592.4	8.5
80°-90°	368.1	5.3
90°-100°	215.7	3.1
100°-110°	123.4	1.8
110°-120°	69.7	1.0
120°-130°	40.1	0.6
130°-140°	21.6	0.3
140°-150°	9.1	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1587.2	22.9
0°-40°	2603.1	37.6
0°-60°	4665.6	67.3
0°-90°	6448.8	93.1
90°-120°	408.7	5.9
90°-150°	479.5	6.9
90°-180°	481.0	6.9
0°-180°	6930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2017	2034	2034	2034	2038	192
15°	1932	1958	1966	1979	1987	545
25°	1763	1792	1822	1848	1864	812
35°	1534	1576	1627	1674	1695	960
45°	1271	1318	1390	1449	1475	981
55°	979	1034	1119	1199	1229	875
65°	661	725	835	941	979	654
75°	339	424	572	695	746	359
85°	64	191	360	487	534	78
90°	0	114	275	394	445	3
95°	0	72	208	318	364	0
105°	0	25	114	199	233	0
115°	0	13	68	123	144	0
125°	0	8	42	80	93	0
135°	0	0	25	51	64	0
145°	0	0	13	30	34	0
155°	0	0	0	8	13	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1356927
 CATALOG NUMBER: 2ASL4-35VHE-3-35-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2038.2	2038.2	2038.2	2038.2	2038.2
2.5°	2029.7	2042.4	2042.4	2029.7	2029.7
5°	2017.0	2034.0	2034.0	2034.0	2038.2
7.5°	2004.3	2025.5	2025.5	2025.5	2034.0
10°	1987.4	2008.5	2012.8	2012.8	2017.0
12.5°	1961.9	1987.4	1991.6	1995.8	2000.1
15°	1932.3	1957.7	1966.2	1978.9	1987.4
17.5°	1898.4	1928.0	1945.0	1957.7	1966.2
20°	1856.0	1885.7	1906.8	1923.8	1936.5
22.5°	1813.6	1839.0	1864.5	1885.7	1898.4
25°	1762.8	1792.4	1822.1	1847.5	1864.5
27.5°	1707.7	1741.6	1779.7	1809.4	1826.3
30°	1656.8	1690.7	1733.1	1771.2	1788.2
32.5°	1597.5	1635.6	1682.3	1720.4	1741.6
35°	1534.0	1576.3	1627.2	1673.8	1695.0
37.5°	1470.4	1512.8	1576.3	1622.9	1644.1
40°	1406.8	1449.2	1517.0	1567.9	1589.0
42.5°	1339.0	1381.4	1453.4	1508.5	1534.0
45°	1271.2	1317.8	1389.9	1449.2	1474.6
47.5°	1203.4	1250.0	1326.3	1389.9	1415.3
50°	1127.2	1178.0	1254.3	1326.3	1351.7
52.5°	1055.1	1106.0	1190.7	1262.8	1288.2
55°	978.8	1033.9	1118.7	1199.2	1228.9
57.5°	902.6	957.7	1046.6	1131.4	1165.3
60°	822.1	881.4	974.6	1063.6	1101.7
62.5°	741.6	805.1	906.8	1000.0	1038.2
65°	661.0	724.6	834.8	940.7	978.8
67.5°	580.5	648.3	767.0	877.1	923.8
70°	500.0	572.1	699.2	813.6	860.2
72.5°	419.5	495.8	635.6	754.3	800.9
75°	339.0	423.7	572.1	694.9	745.8
77.5°	258.5	355.9	517.0	639.9	690.7
80°	186.4	296.6	457.6	584.8	635.6
82.5°	118.6	237.3	406.8	533.9	584.8
85°	63.6	190.7	360.2	487.3	533.9
87.5°	21.2	148.3	313.6	440.7	487.3
90°	0.0	114.4	275.4	394.1	444.9
92.5°	0.0	89.0	241.5	355.9	402.6
95°	0.0	72.0	207.6	317.8	364.4
97.5°	0.0	59.3	182.2	283.9	326.3
100°	0.0	46.6	156.8	254.2	292.4
102.5°	0.0	38.1	135.6	224.6	262.7
105°	0.0	25.4	114.4	199.2	233.1
107.5°	0.0	21.2	97.5	178.0	207.6
110°	0.0	16.9	89.0	152.5	182.2



TEST NUMBER: P1356927
 CATALOG NUMBER: 2ASL4-35VHE-3-35-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	12.7	80.5	135.6	165.3
115°	0.0	12.7	67.8	122.9	144.1
117.5°	0.0	12.7	59.3	110.2	131.4
120°	0.0	8.5	55.1	97.5	118.6
122.5°	0.0	8.5	46.6	89.0	105.9
125°	0.0	8.5	42.4	80.5	93.2
127.5°	0.0	4.2	38.1	72.0	84.7
130°	0.0	4.2	33.9	63.6	76.3
132.5°	0.0	4.2	29.7	59.3	72.0
135°	0.0	0.0	25.4	50.8	63.6
137.5°	0.0	0.0	21.2	46.6	55.1
140°	0.0	0.0	16.9	38.1	50.8
142.5°	0.0	0.0	12.7	33.9	42.4
145°	0.0	0.0	12.7	29.7	33.9
147.5°	0.0	0.0	8.5	21.2	29.7
150°	0.0	0.0	4.2	16.9	21.2
152.5°	0.0	0.0	0.0	12.7	16.9
155°	0.0	0.0	0.0	8.5	12.7
157.5°	0.0	0.0	0.0	0.0	4.2
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	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	21.48	23.02	21.95	23.47	23.96	23.42	24.96	23.89	25.42	25.90
	3H	22.98	24.38	23.46	24.85	25.37	25.85	27.25	26.33	27.72	28.24
	4H	23.46	24.79	23.96	25.27	25.81	27.01	28.35	27.52	28.83	29.37
	6H	23.73	24.97	24.25	25.47	26.02	28.22	29.46	28.73	29.95	30.51
	8H	23.79	24.97	24.31	25.49	26.05	28.83	30.02	29.35	30.54	31.09
	12H	23.80	24.94	24.33	25.45	26.04	29.48	30.62	30.01	31.13	31.72
4H	2H	22.34	23.67	22.84	24.15	24.69	23.86	25.19	24.36	25.67	26.21
	3H	24.07	25.21	24.59	25.73	26.29	26.51	27.65	27.03	28.17	28.73
	4H	24.68	25.72	25.21	26.25	26.85	27.85	28.89	28.39	29.43	30.02
	6H	25.08	25.99	25.63	26.56	27.16	29.25	30.16	29.80	30.73	31.33
	8H	25.17	26.04	25.73	26.60	27.22	29.96	30.82	30.52	31.39	32.01
	12H	25.22	26.00	25.80	26.59	27.22	30.74	31.52	31.32	32.11	32.73
8H	4H	25.34	26.20	25.90	26.77	27.39	28.07	28.93	28.63	29.50	30.12
	6H	25.92	26.65	26.51	27.26	27.88	29.64	30.37	30.23	30.97	31.60
	8H	26.10	26.76	26.71	27.38	28.01	30.49	31.15	31.10	31.77	32.41
	12H	26.22	26.81	26.82	27.41	28.11	31.45	32.04	32.06	32.65	33.35
12H	4H	25.53	26.31	26.11	26.90	27.52	28.08	28.86	28.66	29.45	30.08
	6H	26.20	26.86	26.81	27.48	28.12	29.68	30.34	30.28	30.95	31.59
	8H	26.48	27.07	27.09	27.67	28.38	30.60	31.19	31.21	31.80	32.50

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

Report Prepared for

Cooper Lighting Solutions

Fail-Safe

Report Number: SP1-2511-597-1

Test Date: 11/17/2025

Luminaire Tested: 4ASL-2-35-UNV-OPL-1_600mA

Data in this report applies to families of products including 4ASL

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2511-597-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/18/2025
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Fail-Safe
 Catalog Number: **4ASL-2-35-UNV-OPL-1_600mA**
 Description: 2foot 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDs with 1 rows at 600mA

Spectral Parameters

CCT (K): 3487
 CIE u': 0.2366
 CIE v': 0.5099
 Duv: -0.0012
 CIE x: 0.4047
 CIE y: 0.3876
 CIE z: 0.2077
 Peak Wavelength (nm): 630
 Dominant Wavelength (nm): 581
 Purity: 37.79273
 R_f: 90
 R_g: 102.4

CRI (Ra):	92.5		
R1:	94.7	R9:	61.3
R2:	94.3	R10:	85.5
R3:	92.9	R11:	93.7
R4:	93.3	R12:	80.8
R5:	93.9	R13:	94.3
R6:	93.4	R14:	95.1
R7:	92.5	R15:	90.9
R8:	85.2		



Test Conditions

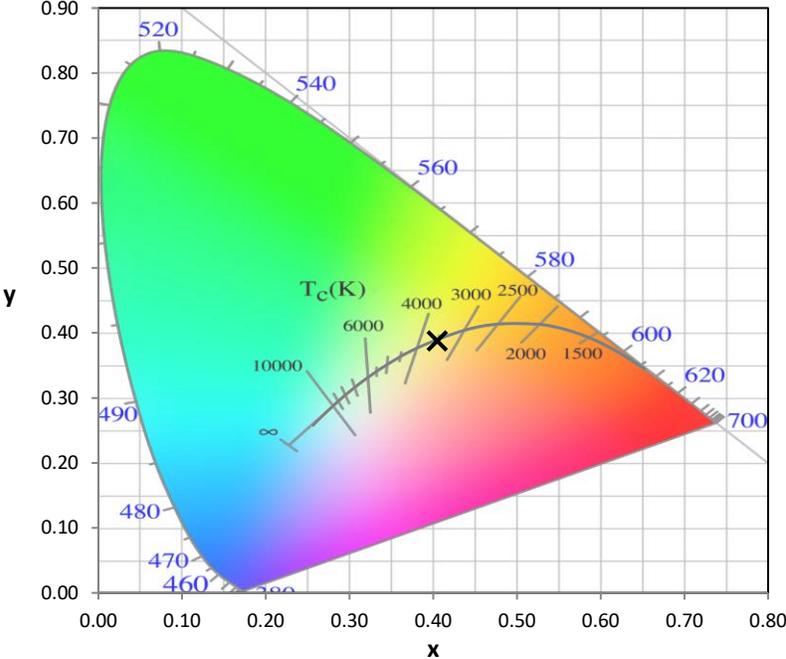
Stabilization Time: 31M
 Operation Time: 1H 31M
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2511-597-1

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	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2511-597-1

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

REPORT NUMBER: SP1-2511-597-1

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-1

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	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

REPORT NUMBER: SP1-2511-597-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.15

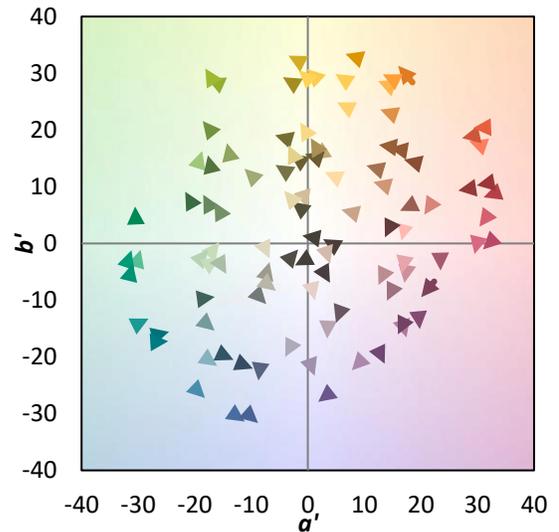
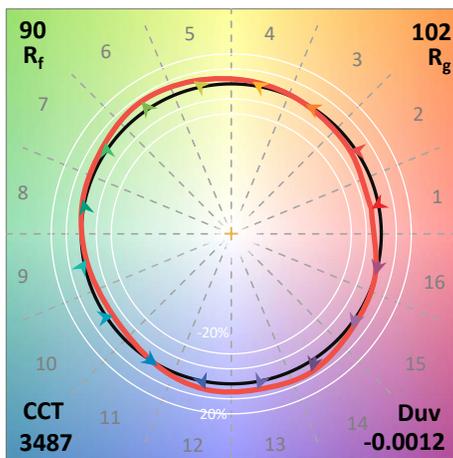
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	122	NR	620	322	NR	750	8	NR	880	0	NR
365	0	NR	495	152	NR	625	323	NR	755	7	NR	885	0	NR
370	0	NR	500	180	NR	630	1000	NR	760	6	NR	890	0	NR
375	0	NR	505	205	NR	635	589	NR	765	5	NR	895	0	NR
380	0	NR	510	223	NR	640	210	NR	770	4	NR	900	0	NR
385	1	NR	515	238	NR	645	214	NR	775	4	NR	905	0	NR
390	1	NR	520	247	NR	650	181	NR	780	3	NR	910	0	NR
395	2	NR	525	252	NR	655	155	NR	785	3	NR	915	0	NR
400	3	NR	530	258	NR	660	133	NR	790	2	NR	920	0	NR
405	5	NR	535	262	NR	665	113	NR	795	2	NR	925	0	NR
410	7	NR	540	267	NR	670	104	NR	800	2	NR	930	0	NR
415	13	NR	545	271	NR	675	86	NR	805	2	NR	935	0	NR
420	24	NR	550	277	NR	680	74	NR	810	1	NR	940	0	NR
425	42	NR	555	284	NR	685	64	NR	815	1	NR	945	0	NR
430	72	NR	560	291	NR	690	55	NR	820	1	NR	950	0	NR
435	122	NR	565	296	NR	695	47	NR	825	1	NR	955	0	NR
440	207	NR	570	301	NR	700	40	NR	830	1	NR	960	0	NR
445	317	NR	575	306	NR	705	34	NR	835	1	NR	965	0	NR
450	304	NR	580	310	NR	710	29	NR	840	1	NR	970	0	NR
455	193	NR	585	315	NR	715	25	NR	845	1	NR	975	0	NR
460	149	NR	590	318	NR	720	21	NR	850	0	NR	980	0	NR
465	117	NR	595	320	NR	725	18	NR	855	0	NR	985	0	NR
470	85	NR	600	322	NR	730	15	NR	860	0	NR	990	0	NR
475	78	NR	605	325	NR	735	13	NR	865	0	NR	995	0	NR
480	84	NR	610	351	NR	740	11	NR	870	0	NR	1000	0	NR
485	98	NR	615	362	NR	745	10	NR	875	0	NR			

Summary

$R_f = 90$
 $R_g = 102.4$
 $CIE R_a = 92.5$
 $R_9 = 61.3$

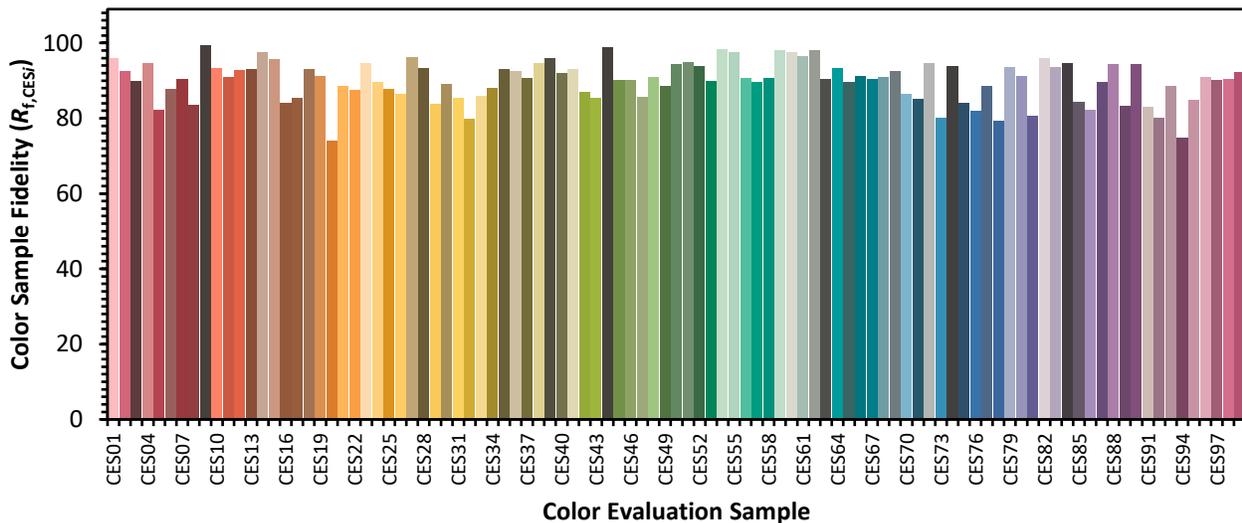


Color Vector Graphics

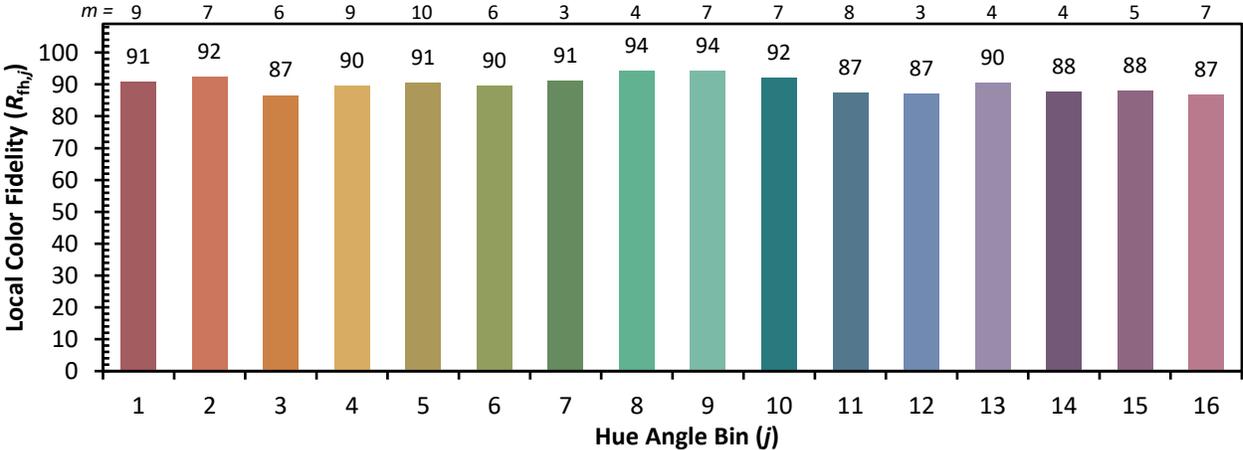
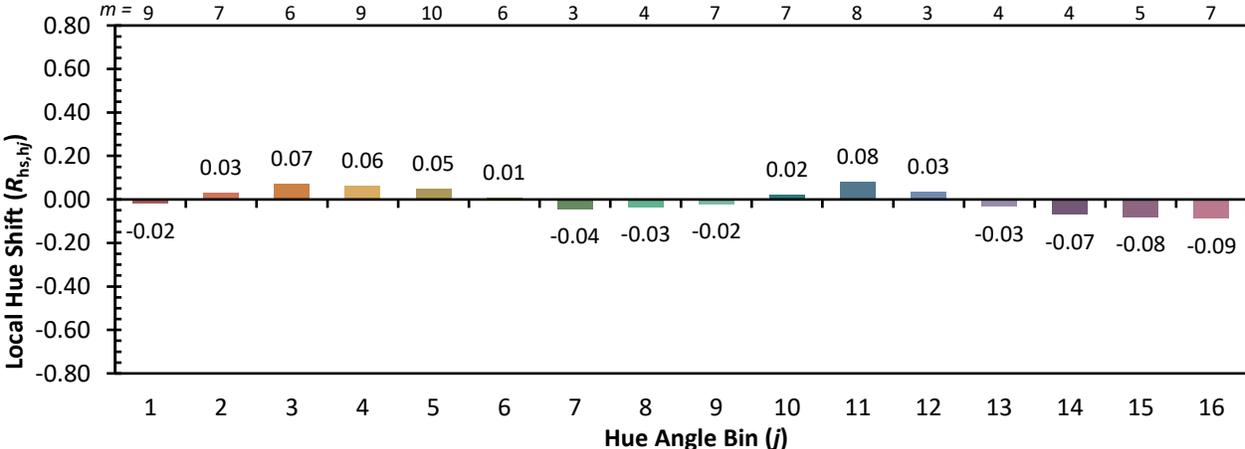
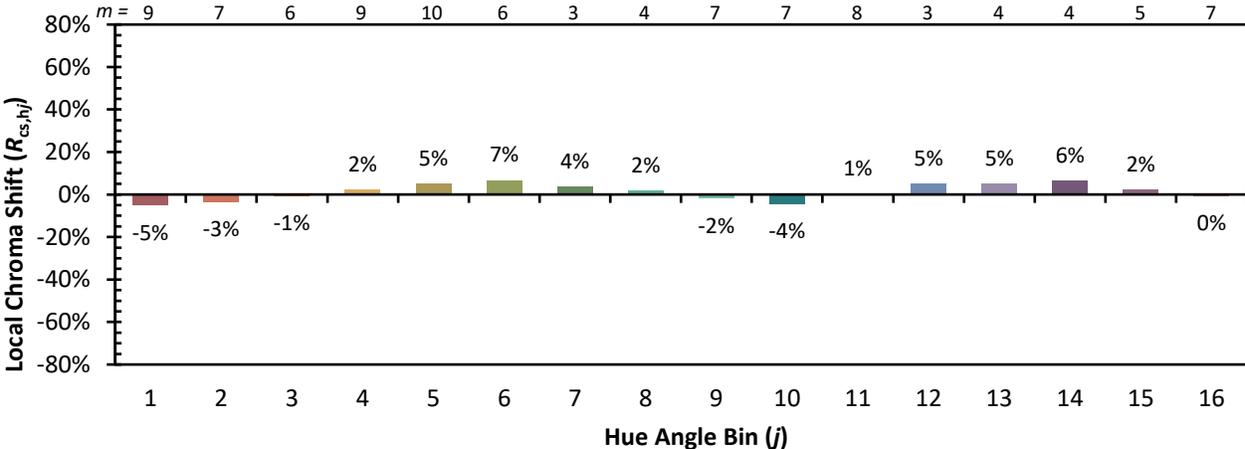


Individual Sample Fidelity Index ($R_{f,i}$)

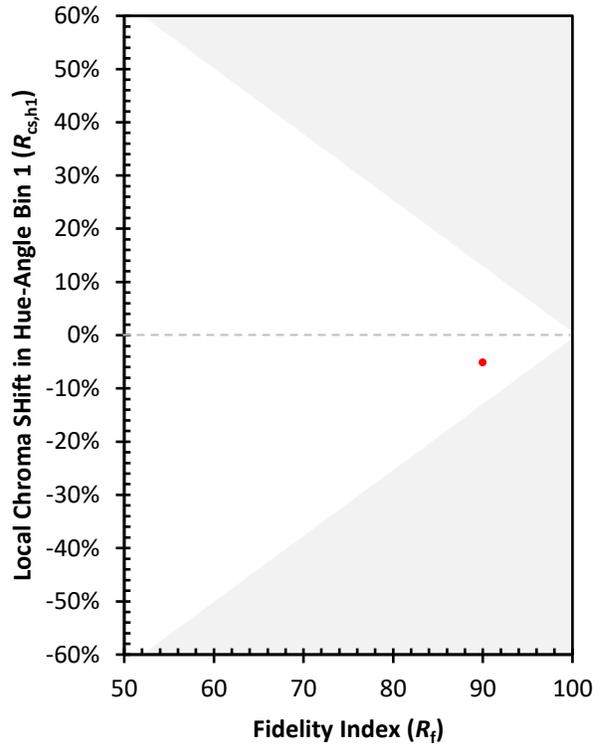
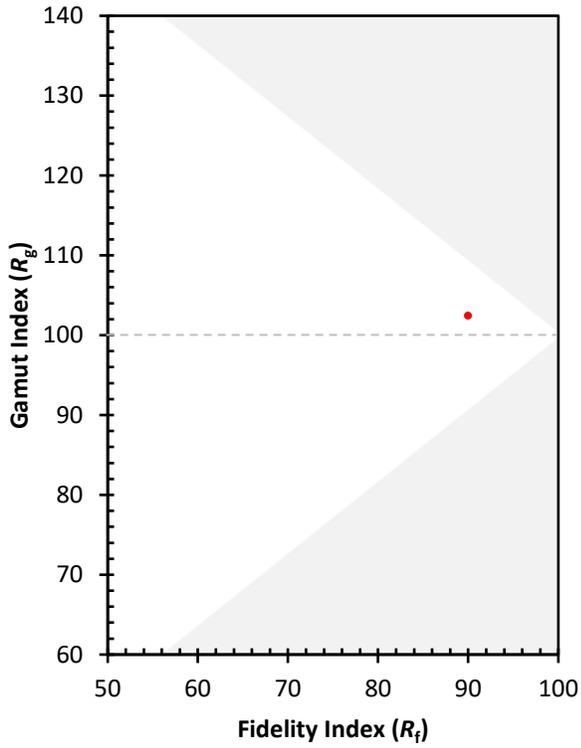
CES01 = 86	CES26 = 87	CES51 = 95	CES76 = 82
CES02 = 62	CES27 = 96	CES52 = 94	CES77 = 89
CES03 = 31	CES28 = 93	CES53 = 90	CES78 = 79
CES04 = 70	CES29 = 84	CES54 = 98	CES79 = 93
CES05 = 50	CES30 = 89	CES55 = 97	CES80 = 91
CES06 = 51	CES31 = 85	CES56 = 91	CES81 = 81
CES07 = 43	CES32 = 80	CES57 = 90	CES82 = 96
CES08 = 41	CES33 = 86	CES58 = 91	CES83 = 94
CES09 = 29	CES34 = 88	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 93	CES60 = 97	CES85 = 84
CES11 = 58	CES36 = 93	CES61 = 96	CES86 = 82
CES12 = 64	CES37 = 91	CES62 = 98	CES87 = 90
CES13 = 43	CES38 = 95	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 96	CES64 = 93	CES89 = 83
CES15 = 71	CES40 = 92	CES65 = 90	CES90 = 94
CES16 = 47	CES41 = 93	CES66 = 91	CES91 = 83
CES17 = 49	CES42 = 87	CES67 = 91	CES92 = 80
CES18 = 56	CES43 = 85	CES68 = 91	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 93	CES94 = 75
CES20 = 66	CES45 = 90	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 90	CES71 = 85	CES96 = 91
CES22 = 78	CES47 = 86	CES72 = 95	CES97 = 90
CES23 = 91	CES48 = 91	CES73 = 80	CES98 = 91
CES24 = 90	CES49 = 88	CES74 = 94	CES99 = 92
CES25 = 71	CES50 = 94	CES75 = 84	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)