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# IDEAlliance® Off-Press Proof Application Data Sheet

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## ColorBurst® RIP Proofing System for GRACoL Coated #1

Using the Epson Stylus® Pro 3880 printer, UltraChrome K3™ inks, & Epson Standard Proofing Paper (240)

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IDEAlliance Print Properties Working Group has established a certification process for off-press proofs as input material to publications. In accordance with this process: "The appearance of a hard copy or monitor proof used in this application must have the ability to closely match specific CGATS or other documented characterization data sets within outlined tolerances. See further explanations and recommendations outlined on [www.swop.org](http://www.swop.org) or [www.gracol.org](http://www.gracol.org).

The following information is intended to assist producers and consumers in the use of vendor specified proofing materials in an off-press proof application:

### I. Manufacturer

**ColorBurst Systems (CSE, Inc.)**  
44710 Cape Court  
Suite 142  
Ashburn, VA 20147



Certified on September 18, 2009

### II. Product

#### ColorBurst® RIP Proofing System

- ColorBurst® RIP (Mac & Windows)
- Epson Stylus® Pro 3880
- UltraChrome K3™ inks
- Epson Standard Proofing Paper (240)

### III. Introduction

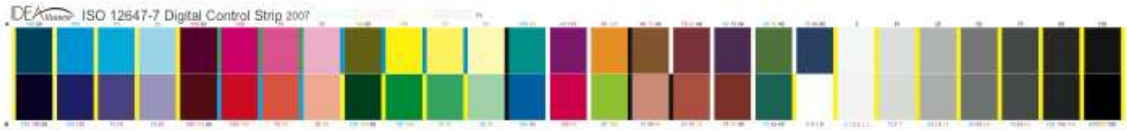
The ColorBurst® RIP combined with the Epson Stylus® Pro 3880, UltraChrome K3™ Ink, and Epson Standard Proofing Paper (240) is a non-half-tone, ICC color managed, digital ink jet color proofing system. The ColorBurst RIP Proofing System provides a high quality, continuous tone, color accurate proof. This document is intended to assist users in calibrating and verifying their ColorBurst RIP Proofing System for use in proofing workflows (e.g. SWOP®, GRACoL®, etc.). Proofs made according to this document were certified in accordance with the process established by the IDEAlliance Print Properties Working Group.

### IV. Control Guide

IDEAlliance specifies a control guide such as an ISO 12647-7 Digital Control Strip 2007 be supplied on every off-press proof. As a minimum, any control guide used for proofing applications should contain solids for the primary process colors (YMCK), two-color overprints (RGB) and a three-color overprint (YMC), as well as a 25%, 50%, and 75% tint in stated line screen resolution of each of the primary process colors and 3-color gray patches. All control guides should be checked for accuracy of the original values. Use and interpretation of a control guide is the responsibility of the creator.



**ColorBurst®**





## V. System Components

For a ColorBurst RIP Proof to be considered a "GRACoL #1" proof, the following components must be used:

- ColorBurst® RIP software (Mac 6.0 or later, Windows 9 or later)
- ColorBurst Environment file: SP3880 Epson Standard Proofing 240 PK
- Epson Stylus® Pro 3880 printer with UltraChrome K3™ Inks
- Epson Standard Proofing Paper (240)
- SpectralVision Pro software (included with ColorBurst RIP software)
- Supported spectrophotometer (must have a UV filter)
  - ✓ X-Rite: DTP20 (PULSE), DTP41, DTP45, or DTP70
  - ✓ X-Rite (GretagMacbeth): Eye-One Pro, Eye-One iO, Eye-One iSis, iCColor, or SpectroScan
- Calibrated workflow (to ensure color quality and consistency, ColorBurst Systems specifies that all proofs must be created in a workflow where calibration procedures are followed)

## VI. Finishing Procedures

The following finishing instructions are necessary in order for the ColorBurst RIP Proofing System to conform to this Application Data Sheet.

1. Select the **SP3880 Epson Standard Proofing 240 PK** environment in the ColorBurst RIP (see the ColorBurst RIP Manual for information on setting up the ColorBurst RIP and selecting printer environments).
2. Perform a relinearization using a supported spectrophotometer (see the SpectralVision Pro Manual for instructions on performing a relinearization and steps for troubleshooting).

Note that the Baseline values contained in the environment are crucial to the accuracy of the ICC profile for the SP3880 printer and should *not* be changed.

3. Save the environment file with a new name. If the goal is to match the provided measurements in Appendix 1, then any ICC profile settings in ColorBurst should *not* be changed.
  - ✓ CMYK Input Profile = **ColorBurst GRACoL #1.icc**
  - ✓ Rendering Intent = **Absolute Colorimetric**
  - ✓ CMYK Output Profile = **SP3880 GRACoL #1 Epson Standard Proofing 240 PK.icc**
  - ✓ Simulation Profile = **None**
4. Print out a control guide such as the ADS Proofing Certification Strip or the ColorBurst RIP Proofing Color Bars (the latter is provided with the ColorBurst RIP). **Color bars should be given a minimum of 15 minutes to dry before any measurements are done.**

## VII. Finished Proof Characteristics

A proof with the color characteristics referenced in Appendix 1 is to be expected when measured from the IDEAlliance ISO 12647-7 Digital Control Strip 2007 having been properly made to all the listed system components and finishing procedures.

Note: Three-color grays are comprised of Cyan, Magenta, Yellow: 75, 66, 66; 50, 40, 40; and 25, 19, 19 values.

An X-rite iSis Spectrophotometer was used under UV excluded mode.



### **VIII. Sample Proofs**

**ColorBurst Systems (CSE, Inc.)** has supplied three (3) sets of hard copy proofs for retention that conform to this Application Data Sheet by an IDEAlliance certifying contractor.

### **IX. Additional Proof Data**

Additional information on creating proofs with the ColorBurst RIP Proofing System can be provided by contacting [support@colorburstrip.com](mailto:support@colorburstrip.com).



**Appendix 1  
Characterization Data CIELab Values**

**IDEAlliance ISO 12647-7 Control Strip 2007 for GRACoL 2006 Coated #1**

Patch ID Top	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
A1	30.05	-22.65	-28.82	-
A2	54.96	-37.12	-50.00	5
A3	66.60	-25.13	-37.01	-
A4	82.64	-9.99	-17.85	-
A5	26.45	41.59	-1.73	-
A6	47.93	74.11	-3.01	5
A7	60.35	51.93	-5.67	-
A8	80.03	20.38	-5.35	-
A9	48.53	-5.30	49.19	-
A10	88.94	-5.02	93.17	5
A11	90.56	-4.57	63.58	-
A12	92.84	-2.51	24.77	-
A13	52.53	-53.19	-19.34	-
A14	37.89	52.56	-22.07	-
A15	70.88	22.91	72.40	-
A16	50.86	15.13	33.06	-
A17	42.17	33.42	13.25	-
A18	34.60	23.09	-17.15	-
A19	52.45	-18.04	26.12	-
A20	36.56	-1.43	-26.62	-
A21	92.88	-0.08	-1.96	-
A22	87.93	-0.20	-1.98	-
A23	77.43	-0.40	-1.93	-
A24	59.77	-0.53	-1.61	-
A25	39.75	-0.57	-1.02	-
A26	25.57	-0.21	-0.53	-

Patch ID Bottom	CIELab Data			Maximum
	L*	a*	b*	CIE ΔLab
B1	15.18	8.84	-24.61	-
B2	24.13	17.20	-46.14	6
B3	40.84	17.09	-35.77	-
B4	69.57	8.37	-19.26	-
B5	26.22	35.38	24.54	-
B6	47.37	68.25	48.79	6
B7	59.09	47.55	39.25	-
B8	78.62	17.92	18.20	-
B9	28.47	-39.38	12.04	-
B10	50.12	-68.43	25.00	6
B11	62.69	-41.44	20.96	-
B12	80.64	-14.75	8.25	-
B13	42.57	-16.27	-48.19	-
B14	48.28	70.95	17.76	-
B15	72.70	-25.21	65.09	-
B16	70.23	19.71	18.63	-
B17	53.40	36.61	28.63	-
B18	41.61	32.01	26.83	-
B19	45.40	-26.20	-3.82	-
B20	95.00	-0.02	-1.96	3
B21	92.43	0.19	-2.06	-
B22	86.74	0.31	-2.04	-
B23	75.52	0.07	-1.50	-
B24	57.54	-0.12	-1.44	3
B25	39.39	-0.30	-0.55	-
B26	23.00	0.17	-0.25	-

**Note:** Color measurements comparing measured proof data to this reference data requires the use of a calibrated spectrophotometer.