

<http://farbe.li.tu-berlin.de/EE68/EE68LONA.TXT> /PS; only vector graphic VG; start output  
 see separate images of this page: <http://farbe.li.tu-berlin.de/EE68/EE68.HTM>

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TUB registration: 20230801-EE68/EE68LONA.TXT /PS  
 application for evaluation and measurement of display or print output  
 TUB material: code=rh4ta

Input	Output	Input and output media and applications			Technical Report (TR) or Standard	Method & Test: Linearization
		Input media	Output media	Application		
analog <sup>2)</sup>	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC TR 24705	{ DIN 33866-1 DIN 33872-1
analog <sup>2)</sup>	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	File	Scanner	ISO/IEC TR 24705	{ DIN 33866-2 <sup>2)</sup> JIS X 6933 <sup>1) 2)</sup>
digital <sup>1)</sup>	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	Hardcopy	Printer	ISO/IEC TR 24705	{ DIN 33866-3 DIN 33872-2,4
			Softcopy	Display	ISO/IEC TR 24705 ISO 9241-306:2018 <sup>1)</sup>	{ DIN 33866-5 DIN 33872-2,4

<sup>1)</sup> Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>  
<sup>2)</sup> Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), siehe *Colour and Colour Vision*, compare as file <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF>

ISO/IEC-input linearization method				ISO/IEC-output linearization method, OUTLIN16_01.PDF			
Input	Output	Application	Technical Report (TR) or Standard	Input	Output media	Application	Technical Report (TR) or Standard
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 <sup>2)</sup> ISO/IEC TR 24705	ISO/IEC File	Hardcopy	Printer	ISO/IEC TR 19797
				ISO/IEC File	Softcopy	Display	ISO 9241-306:2018 8 viewing conditions
				ISO/IEC File	{ Softcopy Hardcopy Hardcopy	{ Display Offset Printer	{ CIE R8-09:2015 (CIE internal) + <a href="http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF">http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF</a>

EE680-3N

Input	Output	Input and output media and applications			Technical Report (TR) or Standard	Method & Test: Linearization
		Input	Output	Application		
analog <sup>2)</sup>	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-1 <sup>3)</sup>	{ DIN 33866-1 DIN 33872-1
analog <sup>2)</sup>	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	File	Scanner	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-3 <sup>3)</sup>	{ DIN 33866-2 <sup>2)</sup> JIS X 6933 <sup>1) 2)</sup>
digital <sup>1)</sup>	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	Hardcopy	Printer	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-2 <sup>3)</sup>	{ DIN 33866-3 DIN 33872-2,4
			Softcopy	Display	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-4 <sup>3)</sup> ISO 9241-306:2018 <sup>1)</sup>	{ DIN 33866-5 DIN 33872-2,4

<sup>1)</sup> Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>  
<sup>2)</sup> Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), siehe *Colour and Colour Vision*, compare as file <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF>  
<sup>3)</sup> Free download of content of ISO documents for example for new standard projects, see many URLs in: <http://farbe.li.tu-berlin.de/EE68/EE681-3N.PDF>. <sup>4)</sup> Withdrawn in 2019.

ISO/IEC-input linearization method				ISO/IEC-output linearization method, OUTLIN16_01.PDF			
Input	Output	Application	Technical Report (TR) or Standard	Input	Output media	Application	Technical Report (TR) or Standard
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 <sup>2)</sup> ed-2: digital files ISO/IEC TR 24705 <sup>3)4)</sup>	ISO/IEC File	Hardcopy	Printer	ISO/IEC TR 19797 <sup>3)4)</sup>
				ISO/IEC File	Softcopy	Display	ISO 9241-306:2018 8 viewing conditions
				ISO/IEC File	{ Softcopy Hardcopy Hardcopy	{ Display Offset Printer	{ CIE R8-09:2015 (CIE internal) + <a href="http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF">http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF</a>

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Input	Output	Input and output media and applications			Technical Report (TR) or Standard	Method & Test: Linearization
		Input	Output	Application		
analog <sup>2)</sup>	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-1 <sup>3)</sup>	{ DIN 33866-1 DIN 33872-1
analog <sup>2)</sup>	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	File	Scanner	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-3 <sup>3)</sup>	{ DIN 33866-2 <sup>2)</sup> JIS X 6933 <sup>1) 2)</sup>
digital <sup>1)</sup>	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	Hardcopy	Printer	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-2 <sup>3)</sup>	{ DIN 33866-3 DIN 33872-2,4
			Softcopy	Display	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-4 <sup>3)</sup> ISO 9241-306:2018 <sup>1)</sup>	{ DIN 33866-5 DIN 33872-2,4

<sup>1)</sup> Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>  
<sup>2)</sup> Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), see <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF> & <http://standards.iso.org/iso-iec/15775/ed-2/en/>  
<sup>3)</sup> Free download of content of ISO documents for example for new standard projects  
 ISO/IEC TR 24705:2005 for basis, printer, scanner, display. <sup>4)</sup> Withdrawn in 2019.  
<http://web.archive.org/web/20060104024850/http://www.jbmia.or.jp/sc28/sc28docs/j28n689.zip>  
 ISO/IEC 15775:1999/AMD 1:2005 for copier  
<http://web.archive.org/web/20060116221659/http://www.jbmia.or.jp/sc28/sc28docs/j28n648.zip>  
 ISO/IEC TR 19797:2004 for output linearization  
<http://web.archive.org/web/20060116212434/http://www.jbmia.or.jp/sc28/sc28docs/j28n687.zip>  
 ISO/IEC DIS 19839-1 to 4:2004 for basis, printer, scanner, display  
<http://web.archive.org/web/20030325005802/http://www.actech.com.br:80/sc28docs/j28n512.pdf>  
<http://web.archive.org/web/20030325050829/http://www.actech.com.br/sc28docs/j28n513.pdf>  
<http://web.archive.org/web/20030325100829/http://www.actech.com.br/sc28docs/j28n514.pdf>  
<http://web.archive.org/web/20030426234527/http://www.actech.com.br/sc28docs/j28n515.pdf>  
 Definitions for the CIELAB - cmY\* relationship in 19839-1 to 4  
<http://web.archive.org/web/20030325200357/http://www.actech.com.br/sc28docs/j28n516.pdf>

EE681-3N

Input	Output	Input and output media and applications			Technical Report (TR) or Standard	Method & Test: Linearization
		Input	Output	Application		
analog <sup>2)</sup>	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-1 <sup>4)</sup>	{ DIN 33866-1 DIN 33872-1
analog <sup>2)</sup>	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	File	Scanner	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-3 <sup>3)</sup>	{ DIN 33866-2 <sup>2)</sup> JIS X 6933 <sup>1) 2)</sup>
digital <sup>1)</sup>	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	Hardcopy	Printer	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-2 <sup>3)</sup>	{ DIN 33866-3 DIN 33872-2,4
			Softcopy	Display	ISO/IEC TR 24705 <sup>3)4)</sup> former DIS 19839-4 <sup>3)</sup> ISO 9241-306:2018 <sup>1)</sup>	{ DIN 33866-5 DIN 33872-2,4

<sup>1)</sup> Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>  
<sup>2)</sup> Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), see <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF> & <http://standards.iso.org/iso-iec/15775/ed-2/en/>  
<sup>3)</sup> Free download of content of ISO documents for example for new standard projects  
<sup>4)</sup> Withdrawn in 2019.

ISO/IEC-input linearization method				ISO/IEC-output linearization method, OUTLIN16_01.PDF			
Input	Output	Application	Technical Report (TR) or Standard	Input	Output media	Application	Technical Report (TR) or Standard
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 <sup>2)</sup> ed-2: digital files ISO/IEC TR 24705 <sup>3)4)</sup>	ISO/IEC File	Hardcopy	Printer	ISO/IEC TR 19797 <sup>3)4)</sup>
				ISO/IEC File	Softcopy	Display	ISO 9241-306:2018 8 viewing conditions
				ISO/IEC File	{ Softcopy Hardcopy Hardcopy	{ Display Offset Printer	{ CIE R8-09:2015 (CIE internal) + <a href="http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF">http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF</a>

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TUB-test chart EE68; Relations of IT standards; basic standards for copiers, printers, scanners, and displays based on CIE colorimetry and ergonomics requirements