

| Input       | Output       | Input and output media and applications                                                                                |                        |         | Technical Report (TR) or Standard     | Method & Test: Linearization   |
|-------------|--------------|------------------------------------------------------------------------------------------------------------------------|------------------------|---------|---------------------------------------|--------------------------------|
| Input media | Output media | Application                                                                                                            |                        |         |                                       |                                |
| –           | –            | –                                                                                                                      | –                      | Basis   | ISO/IEC TR 24705                      | { DIN 33866–1<br>DIN 33872–1   |
| analog      | 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 15775                         | { DIN 33866–2<br>JIS X 6933    |
| analog      | digital      | ISO/IEC-test chart (hardcopy) series equally spaced in <i>Lch</i> *                                                    | File                   | Scanner | ISO/IEC TR 24705                      | DIN 33866–4                    |
| digital     | analog       | ISO/IEC-test chart (File) series equally spaced in <i>rgb</i>                                                          | { Hardcopy<br>Softcopy | Printer | ISO/IEC TR 24705                      | { DIN 33866–3<br>DIN 33872–2,4 |
|             |              |                                                                                                                        |                        | Display | ISO/IEC TR 24705<br>ISO 9241–306:2008 | { DIN 33866–5<br>DIN 33872–2,4 |

The ISO/IEC-input linearisation method produces an ISO/IEC-file from an ISO/IEC-original scene: Flower motiv with 16 equidistant grey steps, and 14 CIE-test colours according to CIE 13.3

The ISO/IEC-output linearisation method produces from an ISO/IEC-file a linearized display, offset or printer output:

| ISO/IEC-input linearisation method |                    |                      |                                   | ISO/IEC-output linearisation method |                                    |                                |                                                                               |
|------------------------------------|--------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|--------------------------------|-------------------------------------------------------------------------------|
| 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<br>ISO/IEC TR 24705 | ISO/IEC File                        | Hardcopy                           | Printer                        | ISO/IEC TR 19797                                                              |
|                                    |                    |                      |                                   | ISO/IEC File                        | Softcopy                           | Display                        | ISO 9241–306:2008<br>8 viewing conditions                                     |
|                                    |                    |                      |                                   | ISO/IEC File                        | { Softcopy<br>Hardcopy<br>Hardcopy | { Display<br>Offset<br>Printer | { CIE R8–09:2015<br>device space +<br>device-independent<br>visual RGB* space |