Proposed CIE output linearization for display and data projector devices

Display or data projector company:

    realized output options:
    One Company preference (Y/N)?
    One ISO 9241-306 (CIE?) linearized (Y/N)?
    Eigth ISO 9241-306 (CIE?) linearized (Y/N)?
    Only one option not specified (Y/N)?

User display or data projector
without or with device specific
up to 8 PS linearization codes
in display output software.

User visual test for up to 8 room light reflections
with output of ISO 9241-306 test charts.
Agrees the output with the user wishes (Y/N)?

If No (N) agreement to the user wishes then:
Output of reference test chart with 1080 colours.
Continues colour change in output (Y/N)?
If Yes, then linearization possible and decision:
Ask display or linearization company for help.

Linearization company: <
Measures 1080 colours of display output
with no room light reflection and produces
8 PS linarization codes
for eight room light reflections.

For test charts of ISO 9241−306 see (1,7 and 20MB)
http://www.ps.bam.de/ME15/10L/M15E00FP.PDF
http://130.149.60.45/~farbmetrik/OE58/OE58D1PX.PDF

Advantages of Output Linearization:
- Linear relation between rgb and CIELAB data.
- No loss of visual information for 16 step
  colour series on different devices.
- Linearized output of whole display for ergonomic
  work depending on room light reflections,
  for solutions see ISO 9241−306.

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