understanding of the human visual system and the potential importance and application of this understanding to office equipment and office systems. SC28 welcomes the German plan to continue development of the

human visual RGB within CIE Division 1 and Division 8. In addition SC28 welcomes a new proposal from Germany in the future based on this CIE human visual RGB work, potentially in relation to AWG/PWG5 NWI-9 (Office colour space).

Two CIE Reportership Reports appeared since 2009: R1-57:2012 (public) and R8-09:2015 (CIE internal) CIE R1-57:2012. Border between blackish and luminous colours, see

http://web.archive.org/web/20150413002133/http://files.cie.co.at/716 CIE%20R1-57%20Report%20Jul-13%20v.2.pdf CIE R8-09:2015 (CIE internal), Output linearization methods for displays and printers,

with the same technical content of Richter (2016), see http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF At the CIE meeting in South Africa, June 2011, CIE Division 1 decided to establish the Reportership CIE R1-57 Border between Luminous and Blackish Colours by Thorstein Seim (Norway) in response to the resolution 18/2009 of ISO/IEC JTC1/SC28.

In addition CIE Division 8 decided to establish the Reportership CIE R8-09 Output Linearization Methods for Displays and Printers by Klaus Richter (Germany)

in response to the same resolution 18/2009 of ISO/IEC JTC1/SC28. Both reports CIE R1-57:2012 ([1] public) and CIE R8-09:2015 ([2] CIE internal) have relations.

[11] http://web.archive.org/web/20150413002133/http://files.cie.co.at/716 CIE%20R1-57%20Report%20Jul-13%20v.2.pdf [2] with the same technical content from Richter (2016), see http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF

Possible Result: Definition of a device-independent visual RGB% system as response to the request of SC28. All surface colours define a hue circle of maximum chroma located within the CIE (x,y) chromaticity diagram. CIELAB chroma C_{ab}^* and lightness L^* of this circle as function of hue h_{ab}^* serves as reference points of a device-independent visual RGB* system (compare the reference C*ab, L* hue circle of the NCS system).

grafico TUB-SI38; ISO resolutions and CIE reports methods for output linearization of colour devices

Ask display or linearization company for help.

Display or data projector company:

realized output options: One Company preference (Y/N)? One ISO 9241-306 linearized (Y/N)? Eigth ISO 9241-306 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

For test charts of ISO 9241-306 see (1.7 and 20MB) http://standards.iso.org/iso/9241/306/ed-2/AE09/AE09F0PX.PDF

http://standards.iso.org/iso/9241/306/ed-2/AE27/AE27F0PX_PDF Advantages of Output Linearization: - Linear relation between rgb and CIELAB data.

-8 PS linarization codes

for eight room light reflections

- No loss of visual information for 16 step

Measure 1080 colours of display output

with no room light reflection and produces

colour series on different devices. - Linearized output of whole display for ergonomic work depending on room light reflections, for solutions see ISO 9241-306.

immettere: w/rgb/cmyk -> w/rgb/cmyk_

uscita: nessun cambiamento

domanda iscrizione: ι per 20210401-SI38/SI38L0N1.TXT la misura di stampa di diceleni di display

materiale: code=rha4ta