see similar files: http://farbe.li.tu-berlin.de/CEN4/CEN4.HTM
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20220101-CEN4/CEN4L0NA.TXT /.PS
application for measurement of display output

TUB material: code=rha4ta

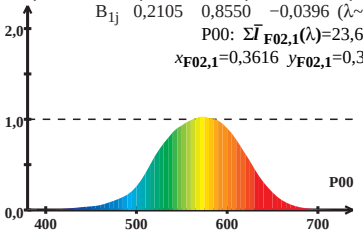
HPE_CIEF02-cone sensitivity $\bar{y}_{max}(\lambda)=1$

$\bar{l}_{F02,1}(\lambda)=B_{11}\bar{x}_{F02,1}(\lambda)+B_{12}\bar{y}_{F02,1}(\lambda)+B_{13}\bar{z}_{F02,1}(\lambda)$

B_{1j} 0,2105 0,8550 −0,0396 (λ~570)

P00: $\Sigma\bar{l}_{F02,1}(\lambda)=23,67$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN40−1A_P00

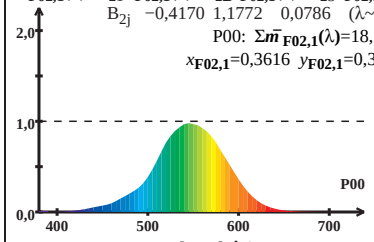
HPE_CIEF02-cone sensitivity $\bar{y}_{max}(\lambda)=1$

$\bar{m}_{F02,1}(\lambda)=B_{21}\bar{x}_{F02,1}(\lambda)+B_{22}\bar{y}_{F02,1}(\lambda)+B_{23}\bar{z}_{F02,1}(\lambda)$

B_{2j} −0,4170 1,1772 0,0786 (λ~545)

P00: $\Sigma\bar{m}_{F02,1}(\lambda)=18,55$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN40−2A_P00

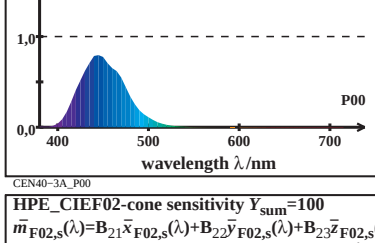
HPE_CIEF02-cone sensitivity $\bar{y}_{max}(\lambda)=1$

$\bar{s}_{F02,1}(\lambda)=B_{31}\bar{x}_{F02,1}(\lambda)+B_{32}\bar{y}_{F02,1}(\lambda)+B_{33}\bar{z}_{F02,1}(\lambda)$

B_{3j} 0,000 0,000 0,5168 (λ~445)

P00: $\Sigma\bar{s}_{F02,1}(\lambda)=9,49$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN40−3A_P00

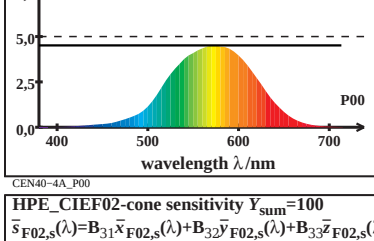
HPE_CIEF02-cone sensitivity $Y_{sum}=100$

$\bar{l}_{F02,s}(\lambda)=B_{11}\bar{x}_{F02,s}(\lambda)+B_{12}\bar{y}_{F02,s}(\lambda)+B_{13}\bar{z}_{F02,s}(\lambda)$

B_{1j} 0,2105 0,8550 −0,0396 (λ~570)

$\lambda_{1,m,2}=515, 575, 626$ P00: $\Sigma\bar{l}_{F02,s}(\lambda)=103,86$

$\bar{l}_{F02,s}(\lambda_{1,m,2})=2,25, 4,51, 2,25$



CEN40−4A_P00

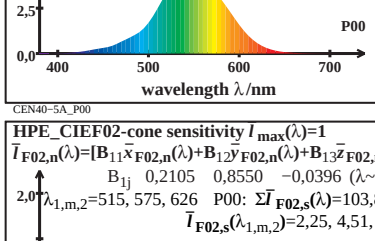
HPE_CIEF02-cone sensitivity $Y_{sum}=100$

$\bar{m}_{F02,s}(\lambda)=B_{21}\bar{x}_{F02,s}(\lambda)+B_{22}\bar{y}_{F02,s}(\lambda)+B_{23}\bar{z}_{F02,s}(\lambda)$

B_{2j} −0,4170 1,1772 0,0786 (λ~545)

$\lambda_{1,m,2}=506, 545, 592$ P00: $\Sigma\bar{m}_{F02,s}(\lambda)=81,37$

$\bar{m}_{F02,s}(\lambda_{1,m,2})=2,14, 4,29, 2,14$



CEN40−5A_P00

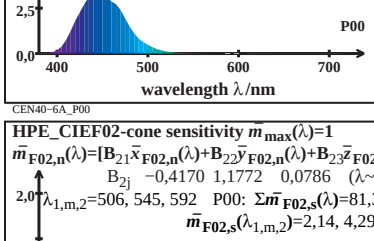
HPE_CIEF02-cone sensitivity $Y_{sum}=100$

$\bar{s}_{F02,s}(\lambda)=B_{31}\bar{x}_{F02,s}(\lambda)+B_{32}\bar{y}_{F02,s}(\lambda)+B_{33}\bar{z}_{F02,s}(\lambda)$

B_{3j} 0,000 0,000 0,5168 (λ~445)

$\lambda_{1,m,2}=419, 445, 477$ P00: $\Sigma\bar{s}_{F02,s}(\lambda)=41,65$

$\bar{s}_{F02,s}(\lambda_{1,m,2})=1,73, 3,48, 1,74$



CEN40−6A_P00

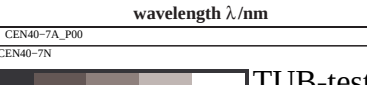
HPE_CIEF02-cone sensitivity $\bar{l}_{max}(\lambda)=1$

$\bar{l}_{F02,n}(\lambda)=[B_{11}\bar{x}_{F02,n}(\lambda)+B_{12}\bar{y}_{F02,n}(\lambda)+B_{13}\bar{z}_{F02,n}(\lambda)]/$

B_{1j} 0,2105 0,8550 −0,0396 (λ~570)

$\lambda_{1,m,2}=515, 575, 626$ P00: $\Sigma\bar{l}_{F02,s}(\lambda)=103,86$

$\bar{l}_{F02,s}(\lambda_{1,m,2})=2,25, 4,51, 2,25$



CEN40−7A_P00

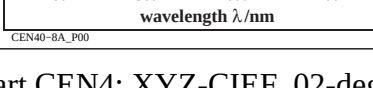
HPE_CIEF02-cone sensitivity $\bar{m}_{max}(\lambda)=1$

$\bar{m}_{F02,n}(\lambda)=[B_{21}\bar{x}_{F02,n}(\lambda)+B_{22}\bar{y}_{F02,n}(\lambda)+B_{23}\bar{z}_{F02,n}(\lambda)]$

B_{2j} −0,4170 1,1772 0,0786 (λ~545)

$\lambda_{1,m,2}=506, 545, 592$ P00: $\Sigma\bar{m}_{F02,s}(\lambda)=81,37$

$\bar{m}_{F02,s}(\lambda_{1,m,2})=2,14, 4,29, 2,14$



CEN40−8A_P00

CEN40−7N

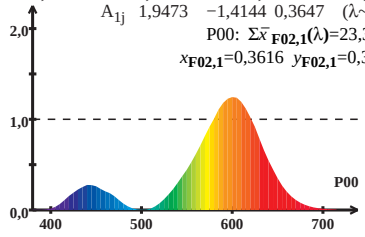
CIEF02 spectral tristimulus values $\bar{y}_{max}(\lambda)=1$

$\bar{x}_{F02,1}(\lambda)=A_{11}\bar{l}_{F02,1}(\lambda)+A_{12}\bar{m}_{F02,1}(\lambda)+A_{13}\bar{s}_{F02,1}(\lambda)$

A_{1j} 1,9473 −1,4144 0,3647 (λ~570)

P00: $\Sigma\bar{x}_{F02,1}(\lambda)=23,32$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN41−1A_P00

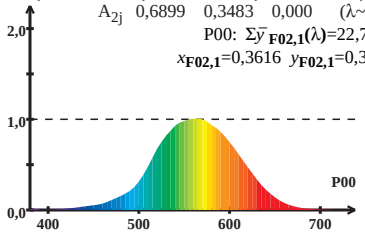
CIEF02 spectral tristimulus values $\bar{y}_{max}(\lambda)=1$

$\bar{y}_{F02,1}(\lambda)=A_{21}\bar{l}_{F02,1}(\lambda)+A_{22}\bar{m}_{F02,1}(\lambda)+A_{23}\bar{s}_{F02,1}(\lambda)$

A_{2j} 0,6899 0,3483 0,000 (λ~545)

P00: $\Sigma\bar{y}_{F02,1}(\lambda)=22,79$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN41−2A_P00

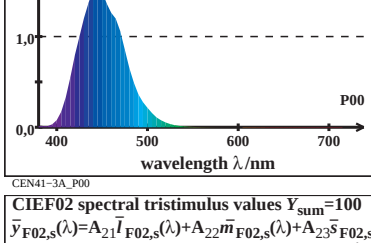
CIEF02 spectral tristimulus values $\bar{y}_{max}(\lambda)=1$

$\bar{z}_{F02,1}(\lambda)=A_{31}\bar{l}_{F02,1}(\lambda)+A_{32}\bar{m}_{F02,1}(\lambda)+A_{33}\bar{s}_{F02,1}(\lambda)$

A_{3j} 0,000 0,000 1,9348 (λ~445)

P00: $\Sigma\bar{z}_{F02,1}(\lambda)=18,37$

$x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$



CEN41−3A_P00

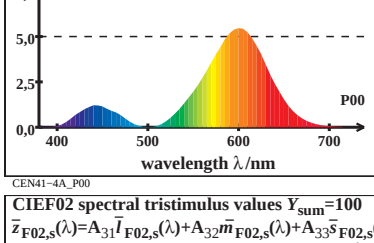
CIEF02 spectral tristimulus values $Y_{sum}=100$

$\bar{x}_{F02,s}(\lambda)=A_{11}\bar{l}_{F02,s}(\lambda)+A_{12}\bar{m}_{F02,s}(\lambda)+A_{13}\bar{s}_{F02,s}(\lambda)$

A_{1j} 1,9473 −1,4144 0,3647 (λ~570)

P00: $\Sigma\bar{x}_{F02,s}(\lambda)=102,34$

$x_{F02,s}=0,3617$ $y_{F02,s}=0,3534$



CEN41−4A_P00

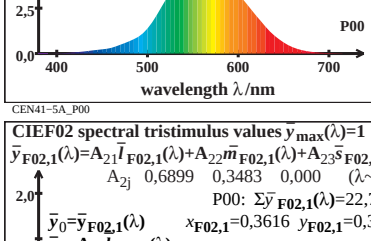
CIEF02 spectral tristimulus values $Y_{sum}=100$

$\bar{y}_{F02,s}(\lambda)=A_{21}\bar{l}_{F02,s}(\lambda)+A_{22}\bar{m}_{F02,s}(\lambda)+A_{23}\bar{s}_{F02,s}(\lambda)$

A_{2j} 0,6899 0,3483 0,000 (λ~545)

P00: $\Sigma\bar{y}_{F02,s}(\lambda)=100,00$

$x_{F02,s}=0,3617$ $y_{F02,s}=0,3534$



CEN41−5A_P00

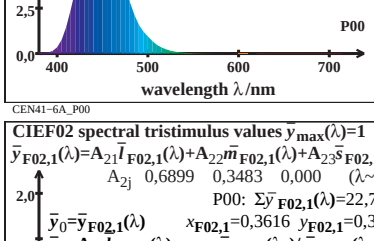
CIEF02 spectral tristimulus values $Y_{sum}=100$

$\bar{z}_{F02,s}(\lambda)=A_{31}\bar{l}_{F02,s}(\lambda)+A_{32}\bar{m}_{F02,s}(\lambda)+A_{33}\bar{s}_{F02,s}(\lambda)$

A_{3j} 0,000 0,000 1,9348 (λ~445)

P00: $\Sigma\bar{z}_{F02,s}(\lambda)=80,59$

$x_{F02,s}=0,3617$ $y_{F02,s}=0,3534$



CEN41−6A_P00

CIEF02 spectral tristimulus values $\bar{y}_{max}(\lambda)=1$

$\bar{y}_{F02,1}(\lambda)=A_{21}\bar{l}_{F02,1}(\lambda)+A_{22}\bar{m}_{F02,1}(\lambda)+A_{23}\bar{s}_{F02,1}(\lambda)$

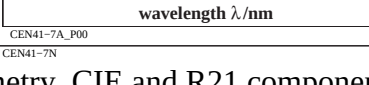
A_{2j} 0,6899 0,3483 0,000 (λ~545)

P00: $\Sigma\bar{y}_{F02,1}(\lambda)=22,79$

$\bar{y}_0=\bar{y}_{F02,1}(\lambda)$ $x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$

$\bar{y}_1=A_{21}\bar{l}_{F02,1}(\lambda)$

$\bar{y}_2=A_{22}\bar{m}_{F02,1}(\lambda)$



CEN41−7A_P00

CIEF02 spectral tristimulus values $\bar{y}_{max}(\lambda)=1$

$\bar{y}_{F02,1}(\lambda)=A_{21}\bar{l}_{F02,1}(\lambda)+A_{22}\bar{m}_{F02,1}(\lambda)+A_{23}\bar{s}_{F02,1}(\lambda)$

A_{2j} 0,6899 0,3483 0,000 (λ~545)

P00: $\Sigma\bar{y}_{F02,1}(\lambda)=22,79$

$\bar{y}_0=\bar{y}_{F02,1}(\lambda)$ $x_{F02,1}=0,3616$ $y_{F02,1}=0,3533$

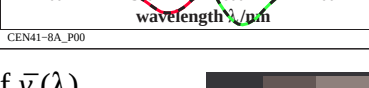
$\bar{y}_1=A_{21}\bar{l}_{F02,1}(\lambda)$ $a=\bar{y}_{F02,1}(\lambda_a)/\bar{m}_{F02,1}(\lambda_a)$

$\bar{y}_2=A_{22}\bar{m}_{F02,1}(\lambda)$ $b=\bar{y}_{F02,1}(\lambda_a)/\bar{l}_{F02,1}(\lambda_a)$

$\bar{y}_3=a\bar{y}_2-b\bar{y}_1$

$\bar{y}_4=b\bar{y}_1-a\bar{y}_2$

Adaptation:
λ_a=570nm



CEN41−8A_P00

CEN41−7N