

$\Delta Y / \Delta Y_u$

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HAULAB tristimulus value difference  
 $\Delta Y$  normalized to  $\Delta Y_u$

$$L^* = s(Y/Y_n)^n - d \quad (Y_n=100, Y_u=30, s=163,9, n=0,31, d=63,9) [1a]$$

$$L^* = r(Y/Y_u)^n - d \quad (r = s(Y_u/Y_n)^n = 96,32, L^*_u = r-d = 32,4) \quad [1b]$$

$$dY = [Y_n / (n s)] (Y / Y_n)^{1-n} \quad [2c]$$

4

2

0

hen40-8a

↑

↑

↑

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↑

$$m_{u90\_4} = 1,179, f_{90}=1, f_4=0$$

$$m_u = 1,575$$

0,1

0,093

0,010

0,001

0,0001

0,00001

0,000001



$$\begin{aligned} & 2,247 \quad \varphi=10^\circ \\ & L_{aw}=300 \text{ cd/m}^2 \end{aligned}$$

application  
range

$Y$

$Y_u=30$

$Y_u=100$