Luminous Blue Variables

Eddington luminosity: maximum luminosity where radiation force balances

gravitational force

luminosity:

• $M_{bol} \sim -11$ to -8

• near Eddington limit

$$L_{\rm Edd} = \frac{4\pi G M m_{\rm p} c}{\sigma_{\rm T}}$$

 $L_{\rm Edd} \sim L_{\rm Edd} \, ({
m M,T})$

 $\frac{m_p}{\sigma_T}$ is the opacity of the stellar material

Luminous Blue Variables