

$$\text{Eff}_{\text{U,R}} = 100 - L_{\text{LA}} + L_{\text{G}} - L_{\text{C}} - C_1 L_1 -$$

$$\left[ \frac{t_{\text{ON}}}{t_{\text{ON}} + \left( \frac{Q_{\text{P}}}{Q_{\text{IN}}} \right) t_{\text{OFF}}} \right] \times (L_{\text{S,ON}} + L_{\text{S,OFF}} + L_{\text{I,ON}} + L_{\text{I,OFF}})$$

If the option in section 9.10 of ASHRAE 103-1993 (incorporated by reference, see §430.3)

is employed:

$$\text{Eff}_{\text{U,R}} = 100 - L_{\text{LA}} + L_{\text{G}} - L_{\text{C}} - C_1 L_1 - \left[ \frac{t_{\text{ON}}}{t_{\text{ON}} + \left( \frac{Q_{\text{P}}}{Q_{\text{IN}}} \right) t_{\text{OFF}}} \right] (C_5)(L_{\text{S,SS}})$$