$$\boxed{P_m = \begin{cases} \frac{1}{m!}\left(\frac{\lambda}{\mu}\right)^m P_0, & 0 \le m \le c \\ \frac{1}{c^{m-c}\,c!}\left(\frac{\lambda}{\mu}\right)^m P_0, & c \le m \le K \end{cases}}$$

$$\boxed{\sum_{m=0}^{K} P_m = 1}$$

$$\boxed{\lambda_m = \begin{cases} \lambda, & 0 \le m < K \\ 0, & m \ge K \end{cases}}$$

$$\boxed{\mu_m = \begin{cases} m\mu, & 1 \le m \le c \\ c\mu, & c \le m \le K \end{cases}}$$

we find that:

$$\sum P_m = 1 \rightarrow \sum_{m=0}^{c-1} P_m + \sum_{m=c}^{K} P_m = 1$$

$$\sum_{m=0}^{c-1} \frac{1}{m!}\left(\frac{\lambda}{\mu}\right)^m P_0 + \sum_{m=c}^{K} \frac{1}{c^{m-c}\,c!}\left(\frac{\lambda}{\mu}\right)^m P_0 = 1$$

$$\boxed{P_0 = \left[\sum_{m=0}^{c-1} \frac{1}{m!}\left(\frac{\lambda}{\mu}\right)^m + \sum_{m=c}^{K} \frac{1}{c\,c!}\left(\frac{\lambda}{\mu}\right)^m \right]^{-1}}$$