$$\frac{\mathrm{d}N_{\bar{c}c}(\boldsymbol{b}_\perp)}{\mathrm{d}^2\boldsymbol{p}_\perp \mathrm{d}^2\boldsymbol{q}_\perp \mathrm{d}y_c \mathrm{d}y_{\bar{c}}} = \frac{\alpha_s N_c^2}{2(2\pi)^{10}(N_c^2-1)} \int_{\boldsymbol{k}_{\mathbf{1}\perp};\boldsymbol{k}_\perp;\boldsymbol{R}_\perp} \frac{\phi^p(x_p;\boldsymbol{k}_{\mathbf{1}\perp};\boldsymbol{R}_\perp)}{\boldsymbol{k}_{\mathbf{1}\perp}^2} \tilde{\mathcal{S}}^A_{\mathrm{F}}(x_A;\boldsymbol{k}_\perp;\boldsymbol{R}_\perp-\boldsymbol{b}_\perp) \tilde{\mathcal{S}}^A_{\mathrm{F}}(x_A;\boldsymbol{p}_\perp+\boldsymbol{q}_\perp-\boldsymbol{k}_{\mathbf{1}\perp}-\boldsymbol{k}_\perp;\boldsymbol{R}_\perp-\boldsymbol{b}_\perp) \mathscr{H}(\boldsymbol{p}_\perp,\boldsymbol{q}_\perp,\boldsymbol{k}_{\mathbf{1}\perp},\boldsymbol{p}_\perp+\boldsymbol{q}_\perp-\boldsymbol{k}_{\mathbf{1}\perp}-\boldsymbol{k}_\perp) + \mathcal{O}\left(1/N_c\right)$$