CS 
$$\begin{array}{c} \text{D.5 mol\% OPS} \\ \text{2 mol\% NiBr}_2\text{-dme} \\ \text{2 equiv. pyridine} \\ \text{1 : 2} \end{array}$$

CN Br 
$$\frac{1:3.5}{N}$$
  $\frac{0.5 \text{ mol\% OPS}}{N}$   $\frac{2 \text{ mol\% NiBr}_2 \cdot \text{DME}}{N}$   $\frac{1:3.5}{N}$   $\frac{1:3.5}{N}$   $\frac{0.5 \text{ mol\% OPS}}{N}$   $\frac{2 \text{ mol\% NiBr}_2 \cdot \text{DME}}{N}$   $\frac{1}{N}$   $\frac{1}{N}$   $\frac{1:3.5}{N}$   $\frac{1:3.5}$ 

Ph Ph 
$$0.5 \text{ mol\% OPS}$$
 Ph  $CH_2Cl_2, 0.5 \text{ h, rt, N}_2$  Ph Ph blue LED ( $\lambda$  = 450 nm)