

## **Supporting information**

### **Phosphor sensitized thermally activated delayed fluorescence organic light-emitting diodes with ideal deep blue device performances**

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Table 1. Device performances of deep blue phosphorescent organic light-emitting diodes reported in the literatures.

Device	100 cd/m <sup>2</sup>		EQE (%)		
	CIE	LT <sub>50</sub> (h)	100 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>	Max
Device 3 (PtON1) <sup>[1]</sup>	0.14, 0.18	800	3.2	N/A	3.2
Exciplex/ n-ETL (20 nm) <sup>[2]</sup>	0.15, 0.21	1	23	21	24

## References

- [1]. T. B. Fleetham, L. Huang, K. Klimes, J. Brooks, J. Li, *Chem. Mater.* 2016, 28, 3276-3282.
- [2]. H. Lim, H. Shin, K. -H. Kim, S. -J. Yoo, J. -S. Huh, J. -J. Kim, *ACS Appl. Mater. Interfaces* 2017, 9, 37883-37887.