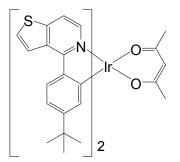
Lumtec Luminescence Technology Corp.

High Efficient Yellow Emitting Material for Solution Process or Vapor Deposition Organic Light-Emitting Devices

**Product Specifications** 

### LT-N758 PO-01-TB

Grade	Sublimed, > 99% (HPLC)
Formula	$C_{39}H_{39}IrN_2O_2S_2$
Molecular Weight	824.21 g/mole
Absorption	448 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
Photoluminenscence	562 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
HOMO/LUMO	5.2 eV/3.0 eV



#### Reference : TW 1395804 , US 8,722,207 Organic Electronics, 2012, 13, 2149-2155

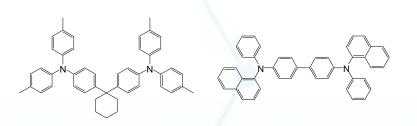
## Features

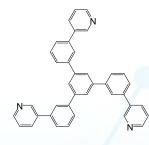
- On fabricating a yellow PHOLED by doping PO-01-TB with host as the emitter, the device achieved a high power efficiency of 62.8 cd/A and an external quantum efficiency of 18.5%.
- By using p-i-n technology with yellow PHOLED, the yellow dopant PO-01-TB achieved a high power efficiency of 97.7 lm/W and an external quantum efficiency of 20.4%.
- PO-01-TB can be used for the solution process OLED, the device achieved a high power efficiency of 35.0 cd/A.

# Device Application

#### The Best Device :

ITO/PEDOT/TAPC(40 nm)/3wt% PO-01-TB:NPB(15 nm)/TmPyPB(50 nm)/LiF(0.8 nm)/Al(120 nm) Related products from Lumtec :





LT- N137 TAPC

LT- N101 NPB

LT-N863 TmPyPB

Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use. Address: 2F, No. 17, R&D Road II, Science-Based Industrial Park, Hsin-Chu 30076, Taiwan, R.O.C., TEL: +886-3-666-3188, FAX: +886-3-666-9288. E-mail : sales@lumtec.com.tw : Web : http://www.lumtec.com.tw