



High Power UVC LEDs for Surface Disinfection

EPIC Online Technology Meeting on Surface Disinfection and Antibacterial Surfaces (in cooperation with IUVA)



Surface Disinfection

- Surface Disinfection via Fixture
- Surface Disinfection via mobile chassis
- Surface Disinfection portable emitters
- Auto Cabin Disinfection
- Defense (NATO countries)

BLAZAR (incorporated 5x5 array) against **MRSA***
1 meter away, covering 1 meter dia.: **60 seconds, 99.99%**
inactivation

BLAZAR against **human coronavirus (H229E ssRNA virus)****:
20 cm away, covering 20 cm dia.: **2 seconds, 99.99%** inactivation
1 meter away, covering 1 meter dia.: **60 seconds, 99.99%**
inactivation

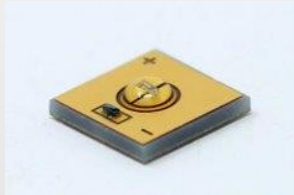
** Test report by Analytical Lab Group, USA, January 2020 ; **Test report by Guangzhou Institute of Microbiology, March 2020;*



Source: Bolb Inc.

Product RoadMap Target

Typical single emitter
100 mW @ **250 mA** 6V
6060 SMD
L70 3500 hours
at case temp of 38o C



Typical 3P4S segment
1200mW @ 750mA 24 V



June 2020

Typical single emitter
200 mW @ **250 mA** 6 V
6060 SMD
L70 3000 hours
at case temp of 55o C



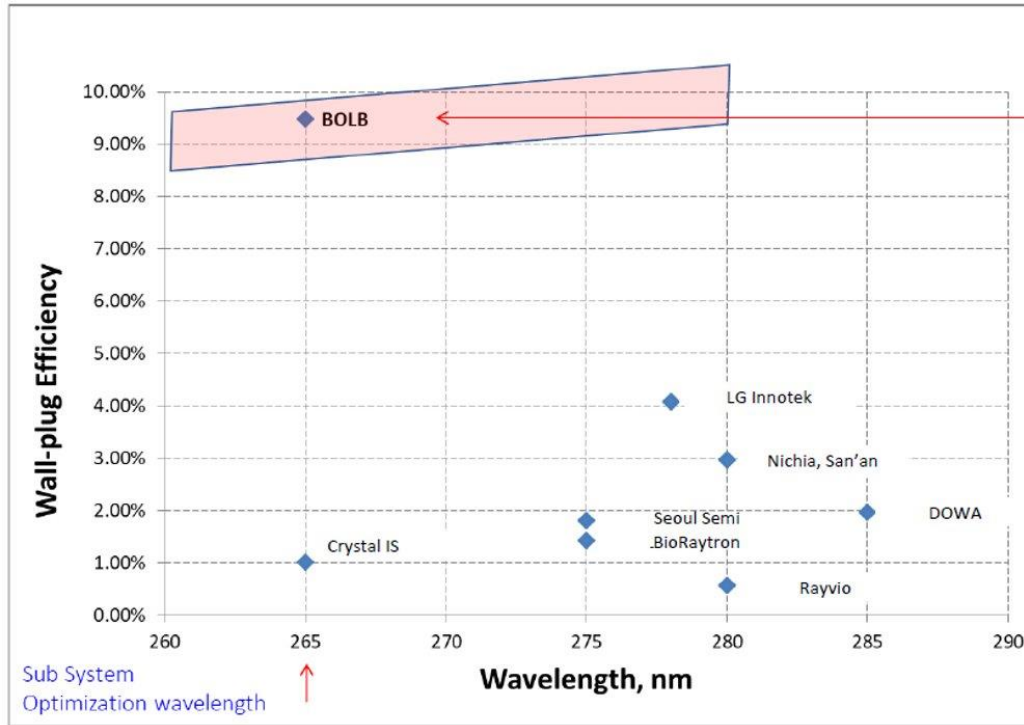
Typical 5P5S segment
5000mW @ 1250mA 30 V



June 2021

Source: Bolb Inc.

Performance Advantage



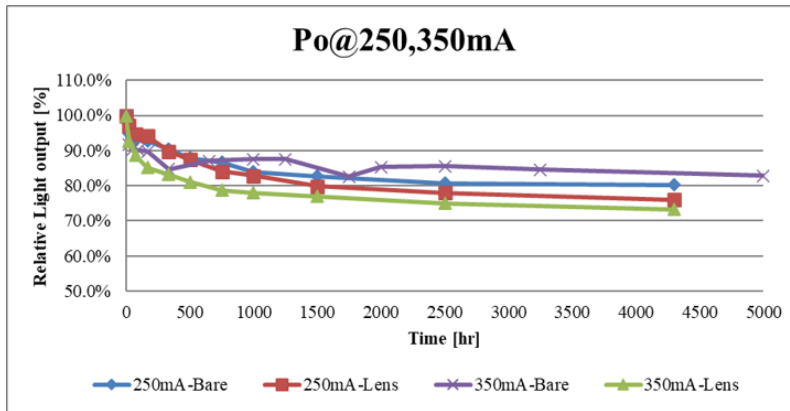
Fully transparent crystal structure allows high LED efficiency

Absorbing crystal structure from competitors

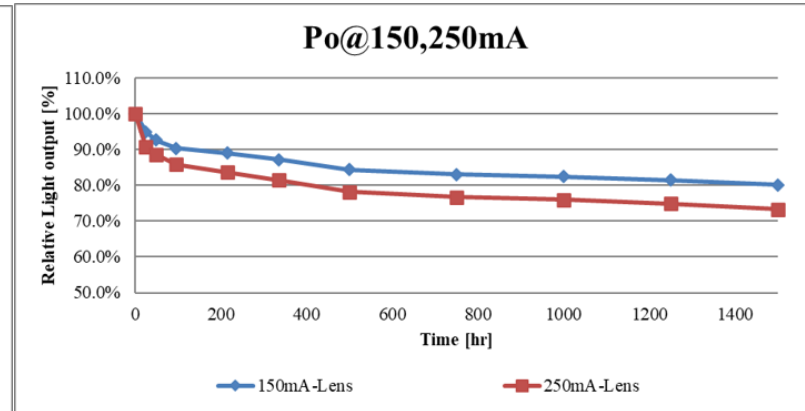
Source: Bolb Inc.

Lifetime Progress

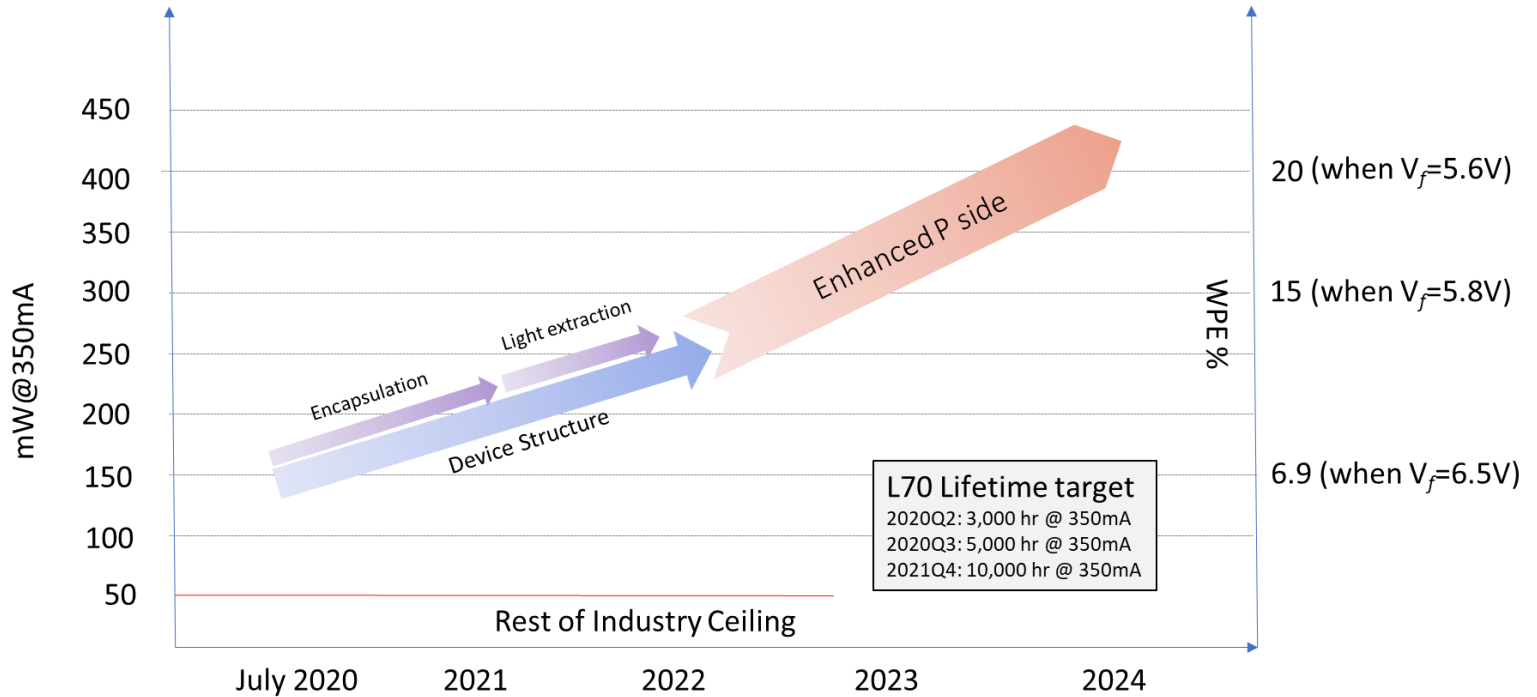
25°C Ambient Lifetime Test



55°C Ambient Lifetime Test



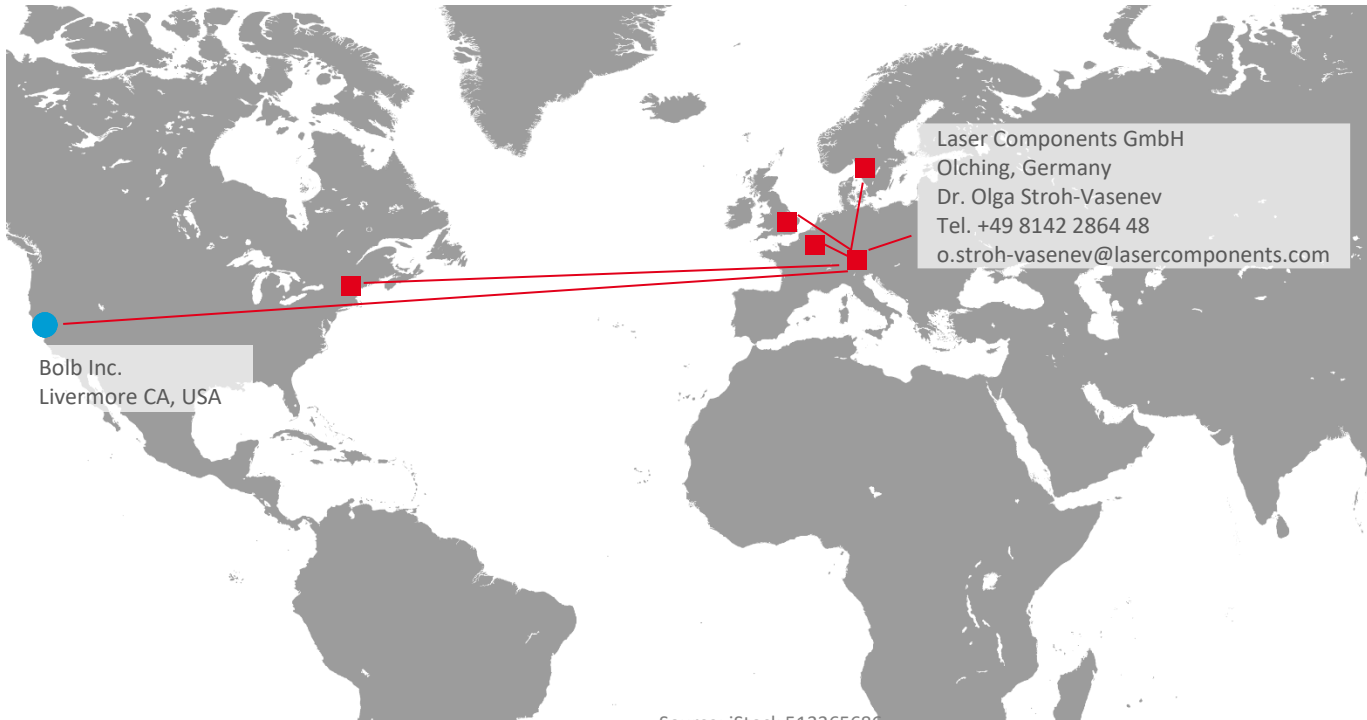
Development Progress



Source: Bolb Inc.



Contact



Source: iStock 513365686

Thank you for your
attention!

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