

Another innovation in LED lighting source products: 3D COB

3D COB integrated solution can be used with dimensional lighting or plane lighting remote phosphor solutions. Compared to single or group LED packages, where phosphor is placed very close to the die and receives near range concentrated light source stimulation, the remote phosphor used in 3D COB are is located further away from the die and excited by long range light source. The advantages provided by such an arrangement include excellent lumen maintenance, small differences in hot-cold factor, and slight color shifts. In addition, by applying remote phosphors in GPI's high luminous efficacy Match LED, it is also able to get improved color uniformity and diverse color temperature options. For luminaire manufacturers, these technological advantages open up a lot of opportunities for luminaire manufacturers to create more flexible light fixture designs.

3D COB's core light source employs the patented blue light Match LED component, The component is constructed on the foundation of AT chips, and includes the following features: wire-bond free, compact arrangement, low thermal resistance, and high light efficiency.

Comparison of Light Source Solutions

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3D COB	Normal COB
Color Uniformity	Extremely good
Lumen Maintenance	Average

Excellent.

Small differences in hot-cold factor.

Good		
Hot-cold Factor	Slightly	Normal

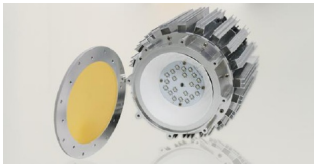
Design Options

Can be matched with many phosphor packages on the package solutions.
Luminaire design/ components used Phosphor coated low inventory Standard specifications that are prone to inventory

A successful case of 3D COB bulb emitting omnidirectional light.



A 3D COB down light that offers a variety of remote phosphor solutions for luminaire manufacturers to choose from.



Remark: We focus on LED Lighting, and our products include LED Bulb Light, T8 LED Tube Light, T5 LED Tube Light, LED Panel Light, LED Track Light, LED Down light, LED Ceiling Light, LED Spot Light, LED Flood Light, LED Emergency Lighting, LED Dimmer, etc.

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