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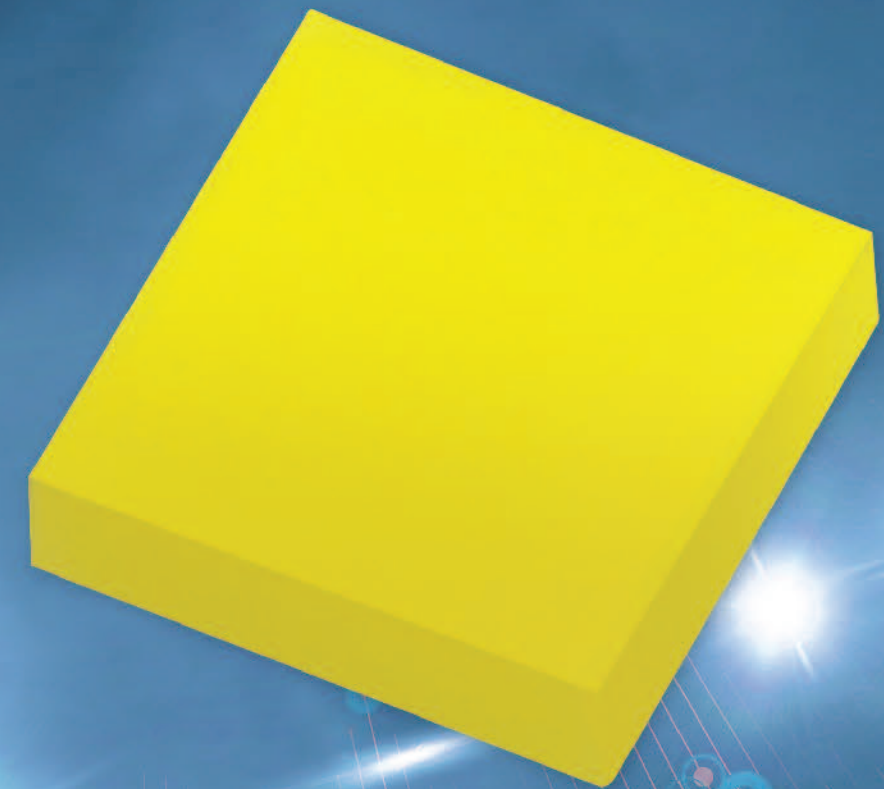
Contact

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WICOP

| World No.1 Light Quality |



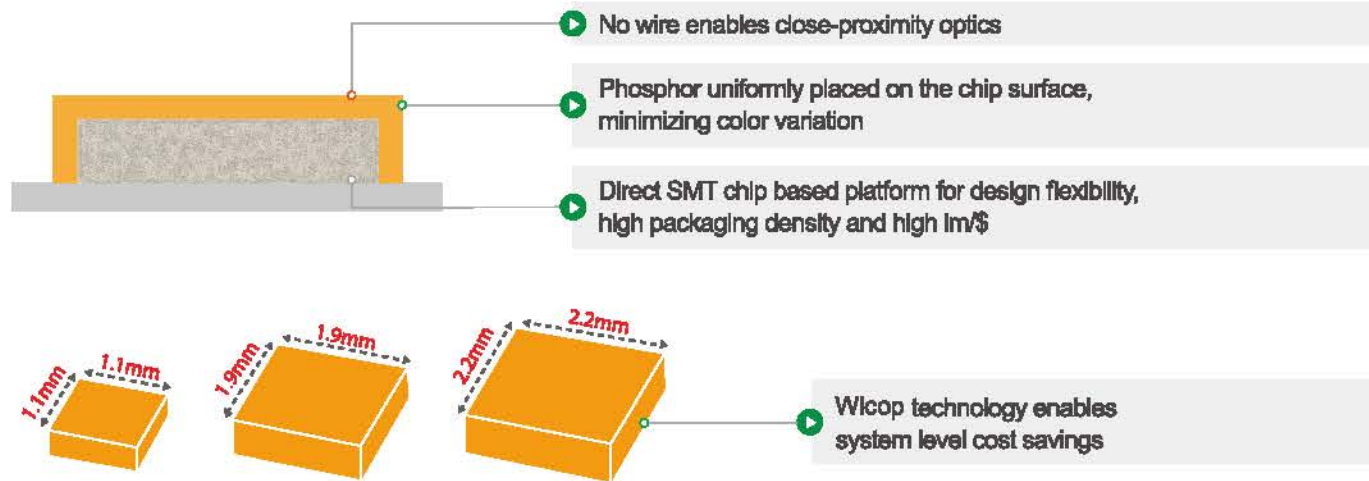
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Wicop Beyond the CSP

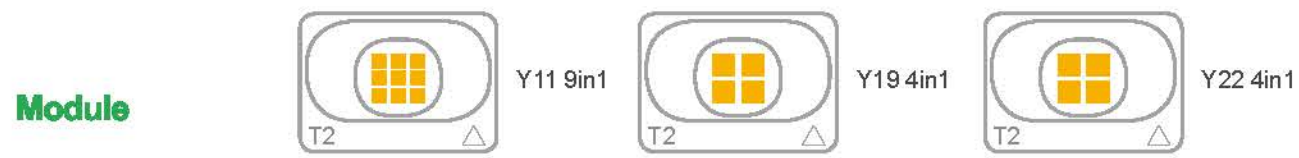
World's first package-free LED

1. World Best Light Quality : COA(=Color Over Angle) - Good Lens Design Flexibility
2. Best Lm density and lm/W - Matrix Design Flexibility
3. Highest reliability & robustness - Minimize fixture size : Cost Saving



Advantage of Package-free LED Wicop

- Small form factor : Provide best lm/W solution using Wicop Matrix
- Compact Design : Save Fixture Cost and Design Flexibility



Cell Design Flexibility : Easy to find lm/W and \$/lm break points

World's First Package-free LED for General Lighting

Excellent cost savings with high lumen density and design flexibility

	Y11A	Y19	Y22	Y22P	Y50P
Part Number	SZ8-Y11-WX-CX-A	SZ8-Y19-WX-CX	SZ8-Y22-WX-CX	SZ8-Y22-WX-CX-P	SZ8-Y50-WX-CX-P
Size (mm)	1.14 x 1.14	1.81 x 1.81	2.21 x 2.21	3.5 x 3.5	5.0 x 5.0
Binning Condition	150mA, T _j = 85°C	700mA, T _j = 85°C	700mA, T _j = 25°C	700mA, T _j = 25°C	700mA, T _j = 25°C
Typical Forward Voltage	2.7V	2.85V	2.74V	2.74V	10.8V
Efficacy (4000K)	183lm/W (CRI 70)	155lm/W (CRI 70)	171lm/W (CRI 70)	171lm/W (CRI 70)	167lm/W (CRI 70)
Flux (lm) typical	74lm (150mA, 85°C)	310lm (700mA, 85°C)	328lm (700mA, 85°C)	328lm (700mA, 85°C)	1266lm (700mA, 85°C)
T _j max	145°C	145°C	145°C	145°C	145°C
Max. Forward Current	0.7A	2.0A	2.0A	2.0A	1.5A
Available CRI	CRI 70/80/90	CRI 70/80/90	CRI 70/80/90	CRI 70/80/90	CRI 70/80
Viewing angle	150°	140°	140°	140°	125°
LM80	✓	✓	✓	✓	✓
ESD Sensitivity (HBM)	Class 2	Class 2	Class 2	Class 2	Class 2

