

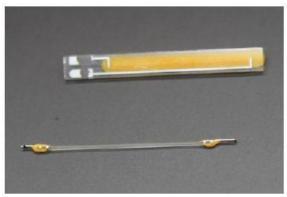
Model: SL-FB-2W / SL-FBC01-2W

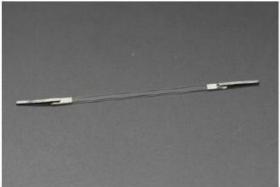




1. Glass Sapphire Heat Conductivity (W/m·K) 1.09 30 Light Decaying-6000H 40% <5%

XSapphire with higher heat conductivity will achieve better heat dissipation, light decaying, stability and longer lifetime.





Glass Filament: Heat Conductivity(W/m·K) Index= 1.09 W/m·K

Sapphire Filament:

Heat Conductivity(W/m·K) Index= =30 W/m·K



















2. Mechanical Strength Comparison (See photos below)

Sapphire, with higher mechanical strength than glass, will guarantee a higher qualified products rate during production process.



3. How to tell glass from sapphire?

Material	Glass	Sapphire
Moh's hardness scale	VERGY 5.5	ING SOLUTI

Sapphire has strong scratch resistance, 9 is just second to that of diamond.

To Scratch Sapphire substrate with glass, no scratch marks left



















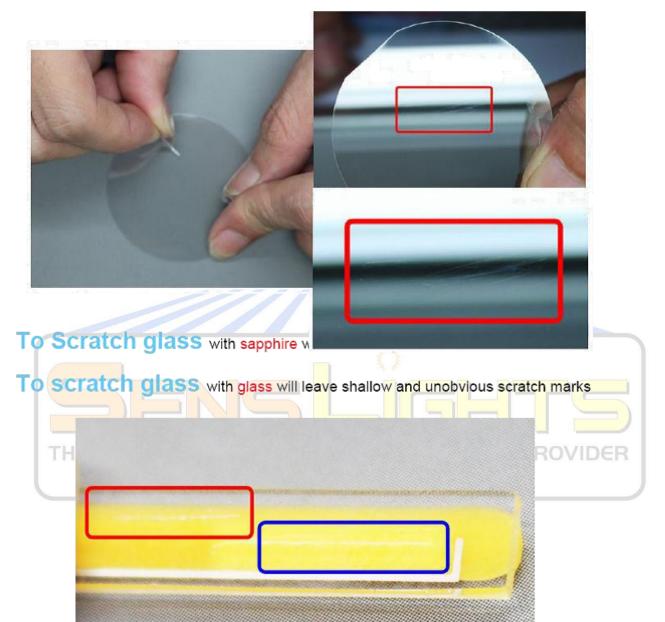
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To Scratch sapphire substrate with sapphire will leave obvious scratch marks



- scratch marks in Red circle are from glass scratched by glass
- scratch marks in Blue circle are from glass scratched by sapphire



















Item No.	Pic	Specifications		
			Luminous Flux:	2W - 250lm
SL-FB-2W		Light Data		4W – 500lm
				6-750 lm
			CRI:	>80
			Main CCT	2200K, 2600- 2900K,5000-5500K
			Beam Angle:	360°
		Electrical Data	Power Consumption:	3.3±0.2W
			Input Voltage:	220V/110V AC
			Operating Frequency:	50Hz/60Hz
			Power Factor:	>0.4
			Body Material:	Glass
			Glass Option:	Clear
		Others	Base Type:	E27
			Lifetime:	35000hrs
			Working Temperature:	-20℃~ 60℃
			Luminous Flux:	2W - 250lm
				4 <mark>W</mark> – 500lm
THE CON	IPLET ENERG	Light Data	CRI	DROV/>80:R
SL-FBC01-2W		SENSLIG	Main CCT	2200K, 2600- 2900K,5000-5500H
			Beam Angle:	360°
		Electrical	Power Consumption:	1.6±0.2W
			Input Voltage:	220V AC
		Data	Operating Frequency:	50Hz
			Power Factor:	>0.4
		Others	Body Material:	Glass
			Glass Option:	Clear
			Base Type:	E14
			Lifetime:	35000hrs
			Working Temperature:	-20℃~60℃
			LED 1	

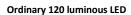
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Comparison of Beam Angle



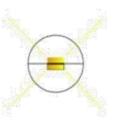


Ordinary LED chip is onesided luminous, the back side cannot give out light, so the beam angle is limited within



Ordinary 90 luminous LED

Ordinary LED chip is onesided luminous, the back side cannot give out light so the beam angle is limited within



SensLights 360 Luminous LED **Square Type**

We adopt high light transmitting(up to 99%)sapphire as substrate, the back side also can give out light, if ingnore the base part, the beam angle can reach 360°



SensLights 360 Luminous LED **Filament Type**

We adopt high light transmitting(up to 99%)sapphire as substrate, the back side also can give out light, if ingnore the base part, the beam angle can reach 360°

Comparison of Different Substrate

Materials' Name Sapphire **Pictures** Heat conductivity High High Low High Beam angle < 180° < 180" 360° 360° Insulativity Not insolated Insulated Insulated Insulated **Luminous Efficiency** 70-100LM/W 70-100LM/W 90-140LM/W 90-140LM/W **Material and Production Cost** Low Low High High Surface/Line Light source type Spot Surface Line Life time Long Long Short Long

Notes:

- 1. High Heat conductivity will increse the lifetime
- 2.Material itself is insolator will lower the cost
- 3.Spot light source-light is uneven, surface/line light souce-light is more even

















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