

Soak-059-400-xx Lighting Kits for COB Modular assembly & introduction

Features & Benefits

- * Mechanical compatibility with direct mounting of the COB products to the
- LED thermal body and thermal performance matching the lumen packages.
- * For Down light designs from 1200 to 2000 lumen.
- * Thermal resistance range Rth 2.37°C/W.
- * Full accessory kit with LED cooler Body, PSU mounting shrapnel & lens holder.
- * Other accessories like COB holder & lens separate available.
- * Modular design with mounting holes foreseen for direct mounting of a wide range of LED modules and COB's.
- * Forged from highly conductive aluminum (ADC12) .
- * Diameter 140.0mm Standard height 90.0mm , Other heights on request.
- * standard colors white powder + Black CUP



		01) Bridelux: Vero 10 Vero SE 10 LED engines;
		02) Cree: XLamp CXA 13xx, Xlamp CXB 13xx Series engines;
ter joint		03) Citizen: CLU024,CLU026,CLU028,CLU721,CLU711,CLU701 LED engines
	SUBULUL!	04) Edison: EdiLex III COB LED engines;
ing		05) GE lighting: Infusion™ LED engines;
dy		06) LG Innotek: 7W, 10W LED engines;
		07) LumiLEDS: LUXEON 1202/1203 LED engines;
		08) Lumens: Ergon-COB 1304 LED engines;
der		09) Luminus: CXM-6, CHM/CLM/CXM-9 LED engines;
ng		10) Nichia: NVxxx024Z,NVxxx036Z, NFCWxxxB Series LED engines;
าร		11) Osram: SOLERIQ® S9 LED engines;
		12) Philips: Fortimo SLM LED engines;
ew		13) Prolight Opto: PACJ-7xxx/14xxx/21xxx/28xxx-xxxx engines;
Reflector		14) Samsung: LCxxxC Series, LCxxxD Series LED engines;
		15) Seoul Semiconductor:SAWxxxxx Series, DC COB LED engines;
		16) Tridonic: SLE G5, SLE G6 LES10mm LED engines;
		17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;

Order Information

Example: Soak-059-400-BK Soak-059 - 1 - 2

1 Pi	1 Product model		
- 300	10w		
- 400	20w		
- 600	30w		
_ 800	40w		

2	Finish	
-	ωн	White
-	вк	Black
-	GY	Gray
-	мі	Mirror
_	GLD	Golden

Notes:

Bo

Hold Orir Len

PC

- Mentioned models are an extraction of full product range.

- For specific mechanical adaptations please contact MingfaTech.

- MingfaTech reserves the right to change products or specifications without prior notice.

Tel:+86-769-39023131 E-fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com





The product deta table

	Soak Series	
Model No.	Soak-059-400-xx	
Heatsink Size	Ф140.0×90.0mm	
Cut out	Ф130.0mm	
Heatsink Material	ADC12	
Heatsink Finish	White+Black	
Weight	548.5g	
Lamp power (Ths-amb,50℃)	20.0 (W)	
Beam Angle	45°	
Thermal Resistance (Rhs-amb)	2.37 (°C/W)	

* 3D files are avaliable in ParaSolid, STP and IGS on request

* The thermal resistance Rth is determined with a calibrated heat source of 14mm×14mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C

The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

* Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module

To calculate the dissipated power please use the following formula: $Pd = Pe x (1-\eta L)$

Pd - Dissipated power

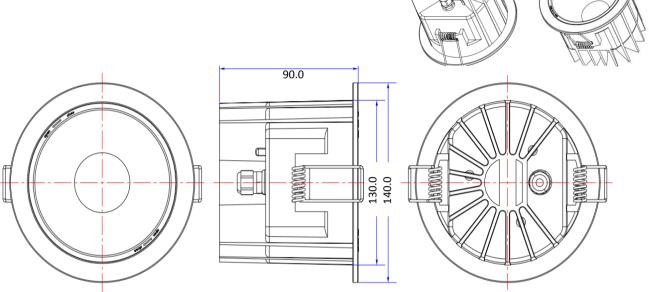
Pe - Electrical power

 η L = Light effciency of the LED module





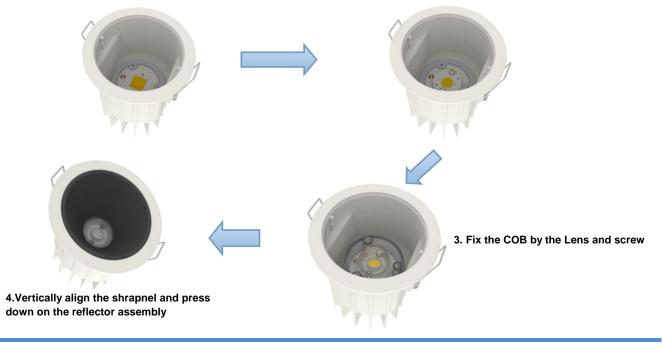




Components introduction

1.Remove the reflector, Install the COB

2. Fix the COB by the holder and screw



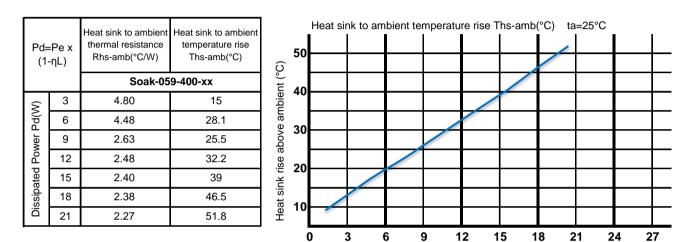
Tel:+86-769-39023131 E-fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com





Soak-059-400-xx Lighting Kits for COB Modular assembly & introduction

The thermal data table



Dissipated Power Pd(W)

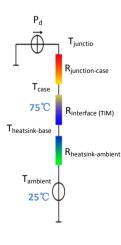
* Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.

*To calculate the dissipated power please use the following formula: $Pd = Pe x (1-\eta L)$.

Pd - Dissipated power ; Pe - Electrical power ; ηL = Light effciency of the LED module;

*The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).

Either thermal grease, A thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended.



*Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (Ths - Ta)/Pd$ θ - Thermal Resistance [°C/W]; Ths - Heatsink temperature; Ta - Ambient temperature; *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is R_{iunction-case}, the thermal resistance of the TIM outside the package is R_{interface (TIM)} [°C/W], the thermal resistance with the heat sink is R_{heatsink-ambient} [°C/W], and the ambient temperature is T_{ambient} [°C]. *Thermal resistances outside the package R_{interface (TIM)} and R_{heatsink-ambient} can be integrated into the thermal resistance $R_{\mbox{\tiny case-ambient}}$ at this point.Thus, the following formula is also used: Tjunction=(Rjunction-case+Rcase-ambient)-Pd+Tambient

Tel:+86-769-39023131 E-fax:+86-(020)28819702 ext:22122 Email:sales@mingfatech.com Http://www.heatsinkled.com Http://www.mingfatech.com

