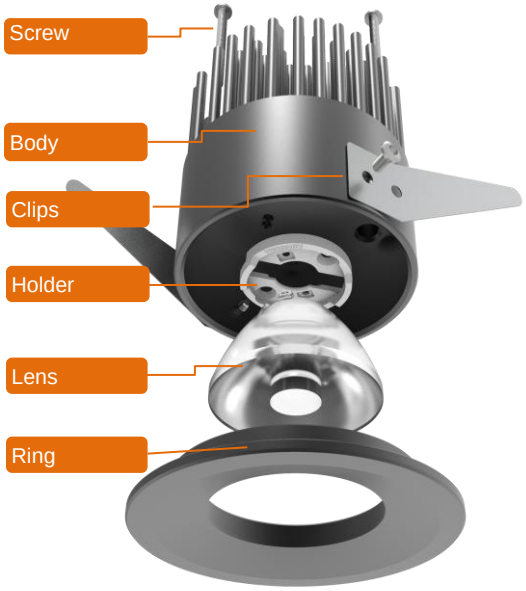
Meng Meng-8065-B-xx Lighting Housing for COB Modular assembly & introduction

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 500 to 1700 lumen.
* Thermal resistance range Rth 2.75°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.
* Diameter 80mm - Standard height 65mm, Other heights on request.
* standard colors Black anodised.



01) Bridelux: V6-G6,V8-G7,V10,H6,HD6 LED engines;

02) Cree: XLamp CXA/CXB 13xx, Xlamp CXA/CXB 15xx Series engines;

03) Citizen: CLU701 LED engines;

04) Luminus: CXM-3,CXM-4;CXM-6 LED engines;

05) ECO: H4E,H6, S6D;

06) Edison: EdiLex III 3w,6w,9w,12w COB LED engines;

07) LG Innotek: L COB G1 Series 7w,10w,16w ;
L COB G2 Series 6w,9w,12w,15w,18w ;F COB G1 Series 12w LED engines;

08) LumiLEDS: LUXEON CoB 1202s, LUXEON COB 1202,1203 LED engines;

09) Lumens: Ergon COB HO Series 1304,1507,1512,1517 LED engines;

10) Nichia: NTCWT012B-V3,NTCWS024B-V3 Series LED engines;

11) Prolight Opto: PACJ-7xxx/14xxx/21xxx/28xxx-xxxx engines;

12) Samsung: LC010C/020C; LC003D/006/009;LC013/016D Series LED engines;

13) Seoul: SAWxx661A;SAWxx64A;SAWxx063A,SAWxx64A Series COB LED engines;

Note: 12.5x12.5mm LES4.0mm VS 13.5x13.5mm LES 6.0mm modules mounting holes for direct assembly of all LED COB brands

Need to match the 9mm LES COB , The beam Angle will be different.

Order Information

Example: Meng-8065-B-24

Soak-Meng-8055 - 1 - 2

1 Finish		2 Beam Angle	
-	B-Black	- 10	10°
-	C-Clear	- 24	24°
-	Z-Custom	- 34	34°
		- 60	60°

Notes:
- 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.

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The product deta table

	 *Meng Family*
Model No.	**Meng-8065-B-xx**
Heatsink Size	**Φ80×65.0mm**
Beam Angle	**10°/ 24°/ 34°/ 60°**
Cut Out	**Φ72.0-Φ75.0mm**
Heatsink Material	**AL1070**
Heatsink Finish	**Black anodised**
Weight	**230.0g**
Lamp power (Ths-amb,40℃)	**15.5** (W)
Thermal Resistance (Rhs-amb)	**2.75**(°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-ηL)
Pd - Dissipated power
Pe - Electrical power
ηL = Light effciency of the LED module

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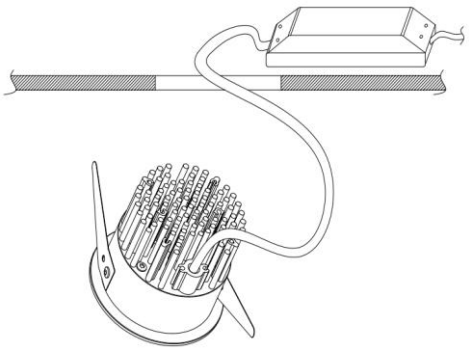
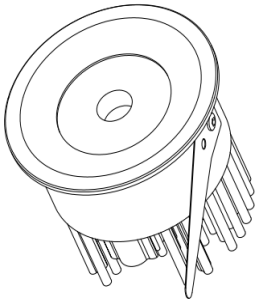
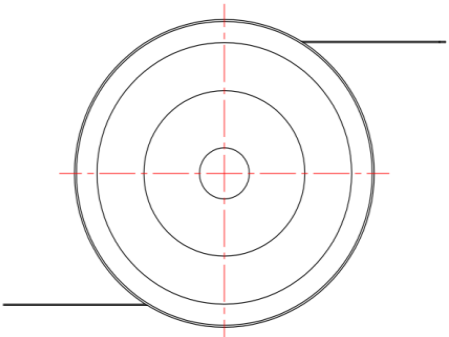
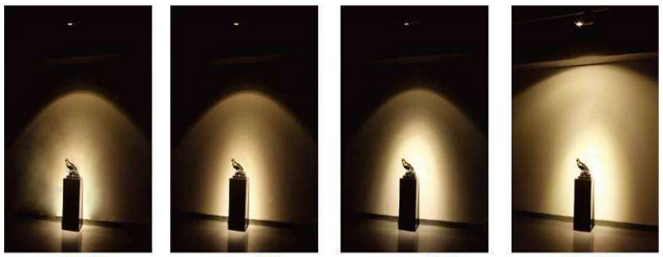
Drawings &Type Selection

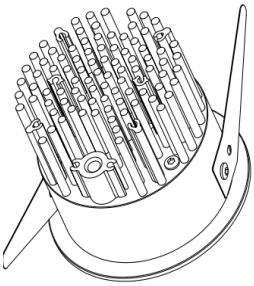


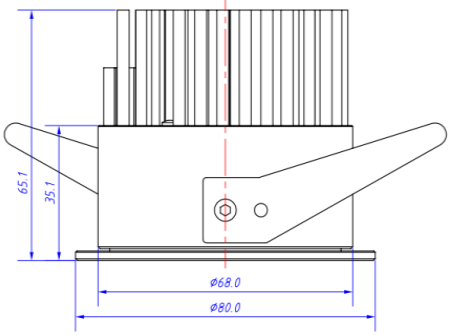






10° 24° 30° 60°





Components introduction

1.Remove the Ring, Install the COB
Fix the COB by the holder and screw

2. Fix the COB by the Lens and screw

4.Vertically align the shrapnel and press down on the reflector assembly

3. Fix the Ring by the Lens and screw

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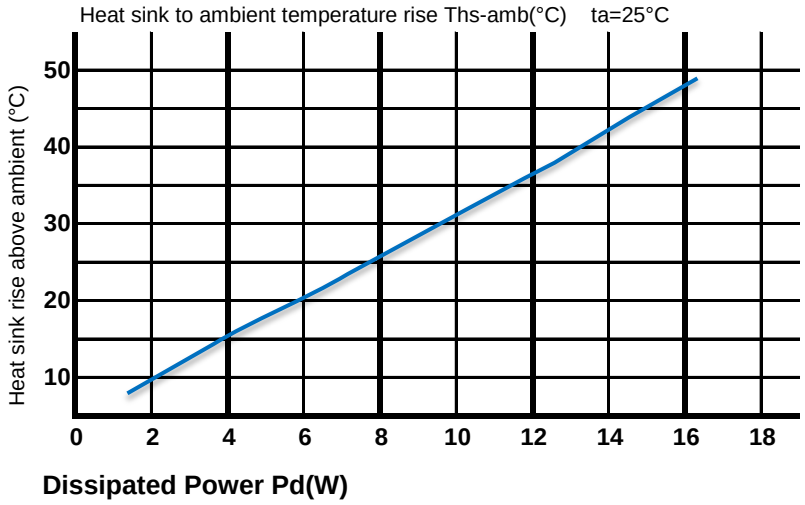
The thermal data table

Pd=Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb(°C/W)	Heat sink to ambient temperature rise Ths-amb(°C)
		Meng-8065-B-xx	
Dissipated Power Pd(W)	2	3.98	8
	4	3.68	14.8
	6	3.13	17.8
	8	3.14	25.3
	10	3.10	31.5
	12	2.98	36.2
	14	2.73	43.2



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

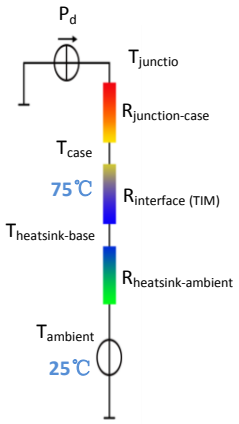
*To calculate the dissipated power please use the following formula: Pd = Pe x (1-ηL).

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).

MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.

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: θ ＝(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 $R_{junction-case}$, 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 $R_{case-ambient}$ at this point.Thus, the following formula is also used:

$T_{junction}=(R_{junction-case}+R_{case-ambient})\cdot Pd+T_{ambient}$

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