

- * 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 4000 to 5500 lumen.
- * Thermal resistance range Rth 0.66°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 230mm Standard height 102mm , Other heights on request.
- * 3 standard colors white powder, black powder and gray powder.



- 01) Bridelux: Vero 10/13 Vero SE 10/13 LED engines;
- 02) Cree: XLamp CXA 13xx, Xlamp CXB 15xx, CXA 18xx Series engines; 03) Citizen: CLU026,CLU027,CLU028,CLU036,CLU038,CLU721,CLU711,
- CLU701 LED engines;
- 04) Edison: EdiLex III COB LED engines;
- 05) GE lighting: Infusion™ LED engines;
- 06) LG Innotek: 7W, 10W, 16W, 21W, 32W LED engines;
- 07) LumiLEDS: LUXEON 1202/1203/1204/1205/1208 LED engines;
- 08) Lumens: Ergon-COB 15xx, 18xx LED engines;
- 09) Luminus: CXM-6, CHM/CLM/CXM-9/14/18 LED engines;
- 10) Nichia: NVxxx024Z,NVxxx036Z, NFCWxxxB Series LED engines;
- 11) Osram: SOLERIQ® S 9/S13, Z6 Mini LED engines;
- 12) Philips: Fortimo SLM LED engines;
- 13) Prolight Opto: PACJ-7xxx/14xxx/21xxx/28xxx-xxxx, PACK-35xxx/42xxx/57xxx-xxxx engines;
- 14) Samsung: LCxxxC Series, LCxxxD Series LED engines;
- 15) Seoul Semiconductor:SAWxxxxx Series, DC COB LED engines;
- 16) Tridonic: SLE G5, SLE G6 10/15/17mm LED engines;
- 17) Vossloh-Schwabe: LUGA Shop and LUGA C LED engines;

Order Information



- GY Gray

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.



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

	Eden	
Model No.	Eden-8001E	
Heatsink Size	Ф230×102mm	
Heatsink Material	ADC12	
Heatsink Finish	White/Black/Gray	
	1544g	
Weight	1544g	
Weight Dissipated power (Ths-amb,50୯)	1544g 50 (w)	
-		

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

* The thermal resistance Rth is determined with a calibrated heat source of 18mm×18mm 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- η L) Pd - Dissipated power Pe - Electrical power η L = Light effciency of the LED module

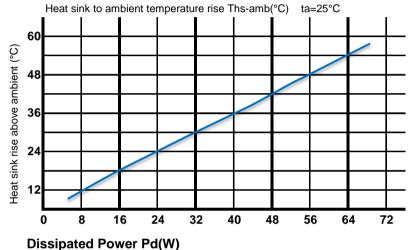






The thermal data table

Pd=Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb(°C/W)	Heat sink to ambient temperature rise Ths-amb(°C)
		Eden-8001E	
Dissipated Power Pd(W)	5	1.00	6
	15	0.80	15
	30	0.70	27
	40	0.68	35
	45	0.67	39
	50	0.66	43
	55	0.65	47



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

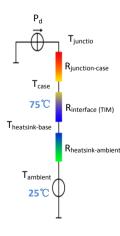
*To calculate the dissipated power please use the following formula: $Pd = Pe x (I - \eta L)$.

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).

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. I-0. I 5mm 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_{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})·Pd + T_{ambient}

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