

BULED

BuLED-30F LED light accessory to replace MR16 fittings

Features VS Benefits

- * BuLED-30F LED light accessory includes one LED cooler and one LED housing to be assembled with LED modules to replace MR16.
- * Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs form 400 to 1200 lumen.
- * Thermal resistance range Rth 6.7°C/W.
- * Heatsink Diameter 48mm Standard height 30mm, Other heights on request.
- * Housing Diameter 50mm Standard height 50mm, Other heights on request.
- * Forged from highly conductive aluminum.

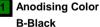
Zhaga Book 3 Spot Light Modules: Xicato ,Bridgelux ,Citizen ,Lumileds ,Lumens , Seoul ,LG Innotek ,Prolight Opto ,Samsung ,Tridonic ,Luminus ,Edison;

- 1) Xicato: XSM, XIM,XTM series;
- 2) Bridgelux: ESS, ESR, Vero 10, Vero 13 series;
- 3) Citizen: CLL022, CLU024, CLL026, CLU028 series;
- 4) Lumileds: Luxeon COB's 1203, 1204, Luxeon K series;
- 5) Lumens: ERC1507 and ERC1512 series;
- 6) Seoul: Semiconductor ZC6, ZC12 series;
- 7) LG Innotek: LEMWM18 10W, 13W series;
- 8) Tridonic: TALEXX SLE series;
- 9) Prolight Opto: PABS, PABA, PACB, PANA series;
- 10) Luminus: Cxx-6 and Cxx-9 series;
- 11) Samsung: LC013 series;
- 12) Edison: EdiLex II COB LED series;

Order Information

Example:BuLED-30F-B Example:BuLED-30F -





C-Clear

Z-Custom



- 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



XICATO

SEOUL

SEOUL SEMICONDUCTOR

SAMSUNG

brídgelu

DISON

LUMENS

Product deta table



Model No.	BuLED-30F	
Heatsink Size	Ф48xH30mm	
Housing Size	Ф50хH50mm	
Material (Heatsink + Housing)	AL1070 + AL6063-T5	
Finish	Black Anodized	
Weight (g)	75.0	
Dissipated power (Ths-amb,60℃)	9.0 (W)	
Cooling surface area (mm²)	30600	
Thermal Resistance (Rhs-amb)	6.7 (°C/W)	

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CITIZEN

LG Innotek

ELUMINUS

TRIDONIC



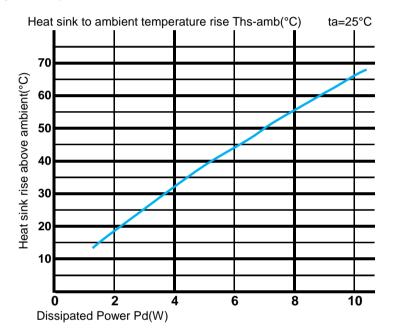
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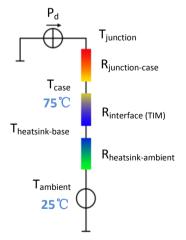
The thermal data table

- * 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;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		BuLED-30F	
Dissipated Power Pd(W)	2.0	9.0	18.0
	4.0	8.0	32.0
	6.0	7.3	44.0
	8.0	6.9	55.0
	10.0	6.6	66.0



*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: $\theta = (Ths - Ta)/Pd$

- θ Thermal Resistance [°C/W] ; Ths Heatsink temperature ; Ta Ambient
- *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is $R_{junction\text{-}case}$, the thermal resistance of the TIM outside the package is $R_{interface\ (TIM)}$ [°C/W], the thermal resistance with the heat sink is $R_{heatsink\text{-}ambient}$ [°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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