



for

LED

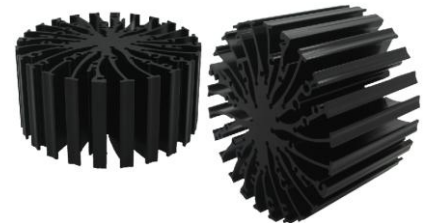


EtraLED

EtraLED-PHI-9680 for Philips Modular Passive Star LED Heat Sink Φ 96mm

Features VS Benefits

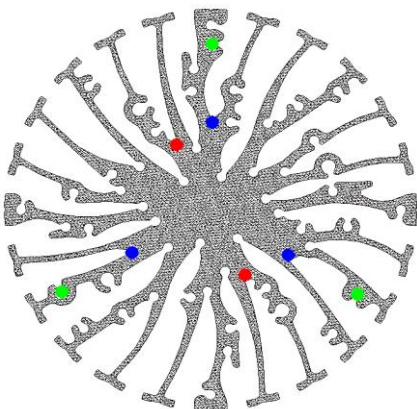
- * The EtraLED-PHI-9680 Philips Modular Passive LED Coolers are specifically designed for luminaires using the Philips LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 3000 to 5700 lumen.
- * Thermal resistance range R_{th} 0.92°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Philips SLM and TDLM engines.
- * Diameter 96mm - standard height 80mm Other heights on request.
- * Extruded from highly conductive aluminum.



Zhaga LED engine and radiator assembly is a unified future international standardization

- * Below you find an overview of philips engines COB's and LED modules which standard fit on the EtraLED coolers.
- * In this way mechanical after work and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

PHILIPS



Philips LED engines for which Zhaga book3 LED Modules holders are available.

Philips Fortimo SLM LED modulars Gen4:

- Fortimo LED SLM 3000LM 830 L15 G4;
- Fortimo LED SLM 3000LM 840 L15 G4;
- Fortimo LED SLM 3000LM 927 L15 G4;
- Fortimo LED SLM 3000LM 930 L15 G4;
- Fortimo LED SLM 4500LM 830 L19 G4;
- Fortimo LED SLM 4500LM 840 L19 G4;
- Fortimo LED SLM 4500LM 927 L19 G4;
- Fortimo LED SLM 4500LM 930 L19 G4;

Philips Fortimo SLM LED modulars Gen3:

- Fortimo LED SLM 3000LM 830 L19 G3;
- Fortimo LED SLM 3000LM 840 L19 G3;
- Fortimo LED SLM 3000LM 930 L19 G3;
- Fortimo LED SLM 4500LM 840 L22 G3;
- Fortimo LED SLM 4500LM 930 L22 G3;

Philips Fortimo SLM LED modulars Gen2:

- Fortimo LED SLM 3000LM 827 L13 G2;
- Fortimo LED SLM 3000LM 835 L13 G2;

NO'1: Blue indicator marks:

- Direct mounting with machine screws M3x8mm;
- NO'2: With Zhaga Book 3 LED holder for red indicator marks.
- Direct mounting with machine screws M3x8mm;

Philips Fortimo TDLM LED modulars:

- Fortimo TDLM 1100 15W/830 230V G2;
- Fortimo TDLM 1100 14W/840 230V G2;
- Fortimo TDLM 1100 16W/830 230V G3;
- Fortimo TDLM 1100 15W/840 230V G3;

With Zhaga Book 2 LED holder.

- (BJB Holder:28.107.2001.50),
- (AAG.STUCCHI holder:7100-D2);
- Gree indicator marks.
- Direct mounting with machine 2 screws M3x12mm;



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LED



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Mounting Options and Drawings & Dimensions

Example: EtraLED-PHI-9680-B-1.2

Example: EtraLED-PHI-96 **1** - **2** - **3**

- 1** Height (mm)
- 2** Anodising Color
B-Black
C-Clear
Z-Custom
- 3** Mounting Options - see graphics for details Combinations available
Ex.order code - 12
means option 1 and 2 combined

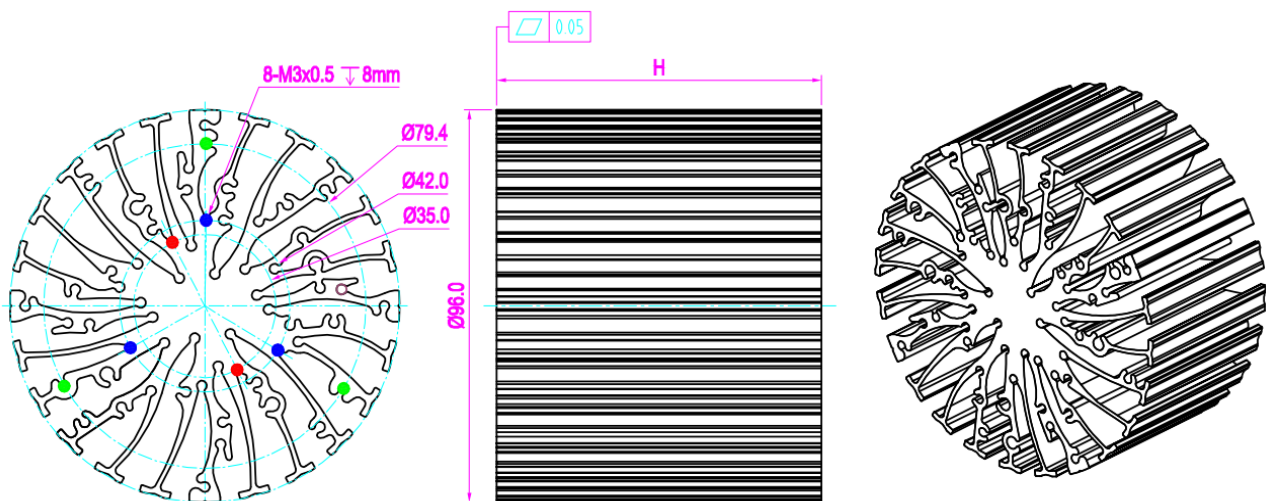
Notes:

- 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.

PHILIPS



MOUNTING OPTION	Module type	Holder NO.	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
1	Fortimo SLM	/	M3	8mm	35.0mm/ 2-@180°
2		/	M3	8mm	42.0mm/ 3-@120°
3	Fortimo TDLM 1100	/	M3	12mm	79.4mm/ 3-@120°



EtraLED

EtraLED-PHI-9680 for Philips Modular Passive Star LED Heat Sink Φ 96mm

The thermal data table

	 <i>EtraLED-9680</i>
Model No.	EtraLED-PHI-9680
Size	Φ96xH80mm
Material	AL6063-T5
Finish	Black Anodized
Weight(gr)	575.0
Thermal Wattage	49.2W
HeatsinkΘs-a²	180427
Heat Sink T Rise Above Ambient	0.92

Dissipated Power Pd(W)	Pd = Pe x (1- η L)	Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)
		EtraLED-PHI-9680	EtraLED-PHI-9680
5		3.4	17.5
15		1.43	21.5
20		1.32	26.4
25		1.21	30.3
30		1.32	39.6
35		1.15	40.3
40		1.12	44.8
45		1.08	48.6
50		1.02	51

