



for

LED



EtraLED

EtraLED-PHI-11020 for Philips Modular Passive Star LED Heat Sink Φ 110mm

Features VS Benefits

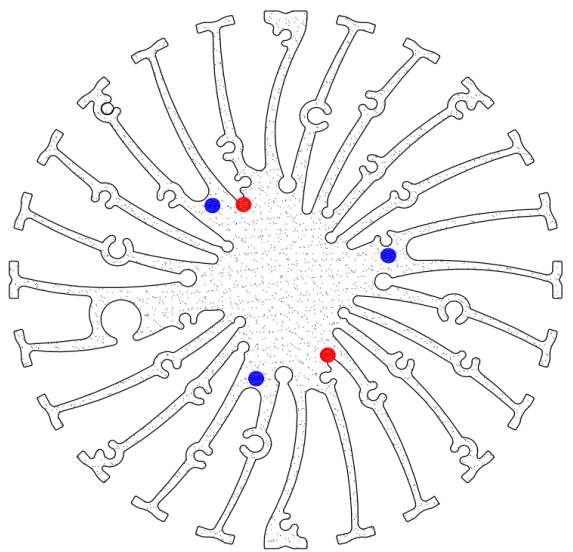
- * The EtraLED-PHI-11020 Philips Modular Passive LED Coolers are specifically designed for luminaires using the Philips LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 800 to 3800 lumen.
- * Thermal resistance range Rth 1.5°C/W.
- * Modular design with mounting holes foreseen for direct mounting of Philips SLM engines.
- * Diameter 110mm - standard height 20mm 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 modular Gen4:

- Fortimo LED SLM 1100LM 827 L9 G4;
- Fortimo LED SLM 1100LM 830 L9 G4;
- Fortimo LED SLM 1100LM 840 L9 G4;
- Fortimo LED SLM 1100LM 827 L13 G4;
- Fortimo LED SLM 1100LM 830 L13 G4;
- Fortimo LED SLM 1100LM 840 L13 G4;
- Fortimo LED SLM 2000LM 830 L13 G4;
- Fortimo LED SLM 2000LM 840 L13 G4;
- Fortimo LED SLM 2000LM 927 L13 G4;
- Fortimo LED SLM 2000LM 930 L13 G4;
- 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;

Philips Fortimo SLM LED modular Gen3:

- Fortimo LED SLM 2000LM 830 L19 G3;
- Fortimo LED SLM 2000LM 840 L19 G3;
- Fortimo LED SLM 2000LM 930 L19 G3;
- Fortimo LED SLM 3000LM 830 L19 G3;
- Fortimo LED SLM 3000LM 840 L19 G3;
- Fortimo LED SLM 3000LM 930 L19 G3;

Philips Fortimo SLM LED modular Gen2:

- Fortimo LED SLM 800LM XXX L13 G2;
- Fortimo LED SLM 1100LM XXX L13 G2;
- Fortimo LED SLM 2000LM XXX L19 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;

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Mounting Options and Drawings & Dimensions

Example: EtraLED-PHI-11020-B-3

Example: EtraLED-PHI-110 **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

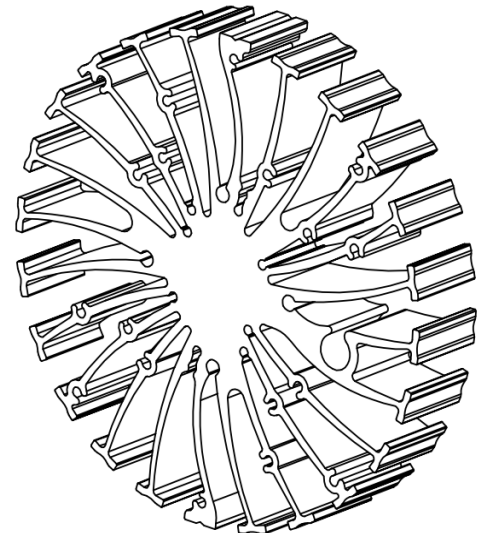
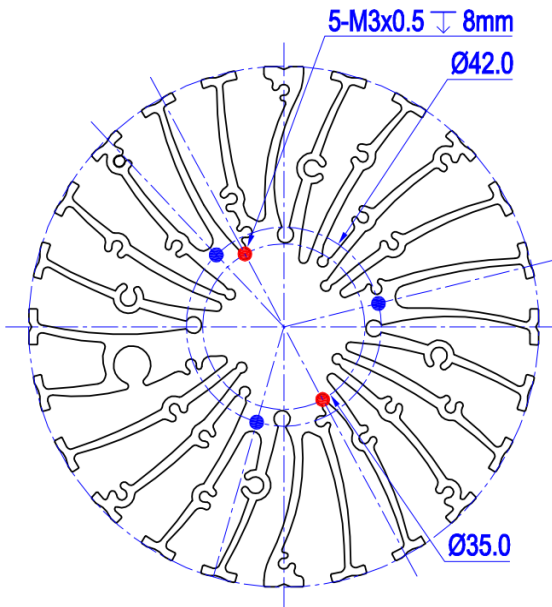
Notes:

- 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°



EtraLED

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The thermal data table

	 <i>EtraLED-11020</i>
Model No.	EtraLED-PHI-11020
Size	Φ 110xH20mm
Material	AL6063-T5
Finish	Black Anodized
Weight(gr)	165.0
Thermal Wattage	33.0W
HeatsinkΘs-a²	53311
Heat Sink T Rise Above Ambient	1.5

Dissipated Power Pd(W)	Pd = Pe x (1- η L)	Heat sink to ambient thermal resistance Rhs-amb ($^{\circ}$ C/W)	Heat sink to ambient temperature rise Ths-amb ($^{\circ}$ C)
		EtraLED-PHI-11020	EtraLED-PHI-11020
7		1.9	13
14		1.6	23
21		1.6	34
28		1.5	42
35		1.5	51

