

SynJet[®] CoolTwist LED Cooler

SynJet cooling technology provides the most reliable thermal management solution available. This LED cooler has been developed by Nuventix, for cooling the Philips Fortimo Twistable LED TDLM.

- Doubles Fortimo Twistable's L70 lifetime predictions to 50K hours
- Maintains Case Temperature at 55°C or below for superior reliability
- Smallest thermal solution available for the Philips Twistable
- 100K hours L10 life
- 5 Year warranty
- Energy efficient



Specifications

Parameter	Typical Tc ¹ (C)	Θs-a ^{2,3,4}	SPL (dBA) ⁵	Power W (5V) ⁶
SynJet, PAR30, Variable Control Cooler ⁷	47-55	1.0-1.6	18-32	1.0-1.8

Parameter – All Modules	Min	Typ	Max	Units	Conditions
Voltage	4.75		5.25	VDC	150mV max ripple p-p; 12VDC also available
Power Lead					Power (Red wire) Ground (Black wire)
Operating Temperature	0		50	°C	
Storage Temperature	-40		75	°C	
Storage Altitude			15K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			300	gr	<230gr for the heat sink and <70gr for the cooler
Agency Certifications					RoHS, CE, UL
Reliability ⁸			100K	hrs	L10 @ 50°C

¹ Tc measurement at 35C ambient. See Twistable Design-in guide

² In fully open air or well vented fixtures from 25C to 50C in full "on" condition. Thermal data is given as a reference only. Actual performance may vary by application.

³ Thermal resistance is measured from the bottom middle of the heat sink to ambient air measured at the inlet to the SynJet.

⁴ SynJet Cooler is suitable for enclosed fixtures but thermal performance will vary depending on the enclosure.

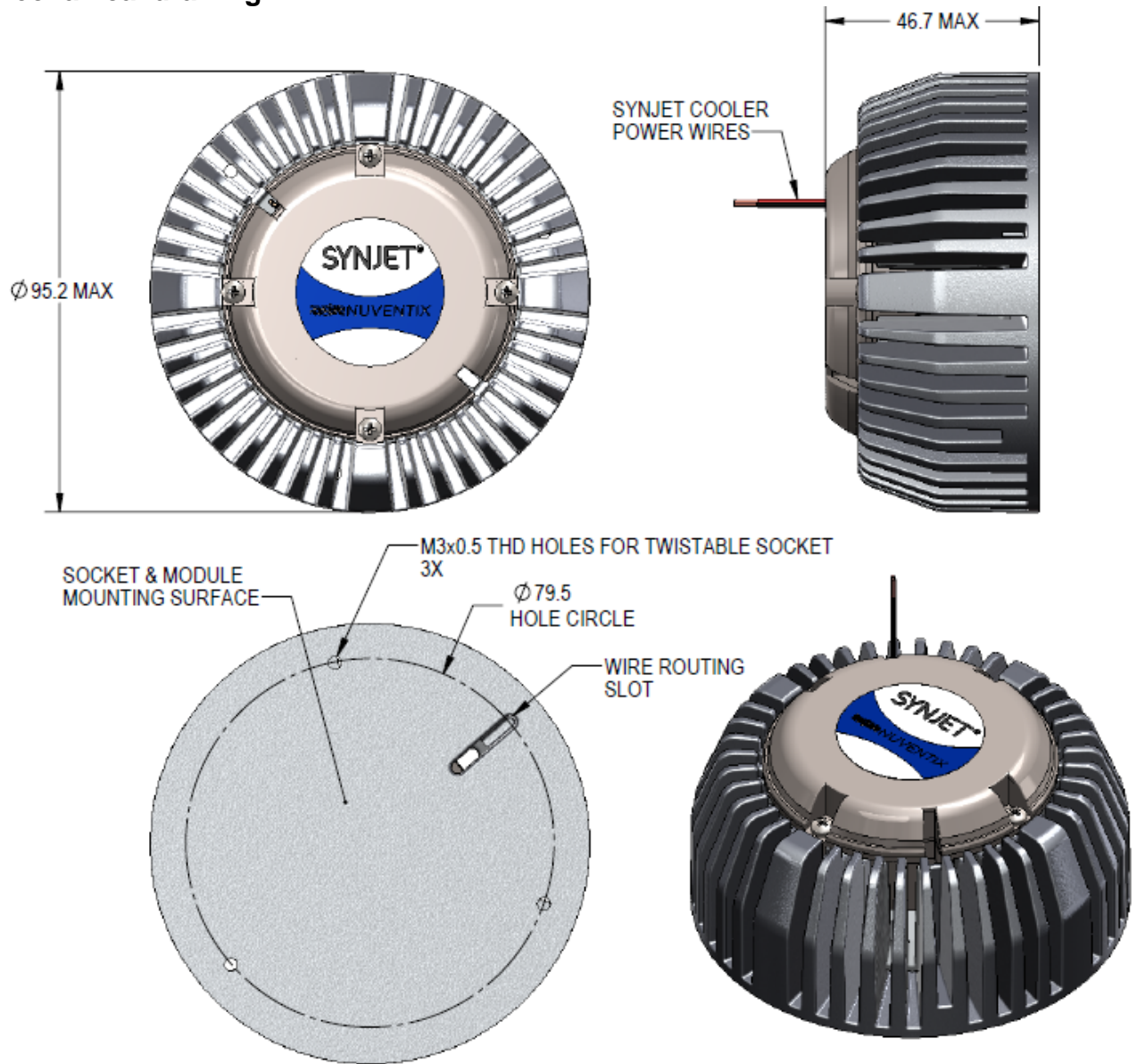
⁵ Per ISO 7779

⁶ See Nuventix Design Guide for detailed power requirements.

⁷ Variable Control Cooler is controlled by two additional wires and can be toggled between the three standard settings and the "off" state.

⁸ L10 is the life for which 90% of a group of modules will meet or exceed the specification.

Mechanical drawing



All dimensions in mm.

Part Numbers

PAR30Cooler	Document revision: 0.3
SP30S-CM005-004	SynJet, PAR30, 5V Variable Control Cooler
HP30S-CALBL-002	Heatsink – Fortimo Twistable option, Black Finish

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