

# SynJet<sup>®</sup> Universal 140 DLM Cooler with Heat Sink for Philips Fortimo LED DLM

## Features/Benefits

- Perfect for 140mm diameter downlight applications
  - Retail and Commercial, General Lighting
- Less than 60mm in total height
- Enables 2000 lumens in small profile
- Silent Operation
- 100K Hours Lifetime
- Energy Efficient



## Overview

SynJet Fanless Air Cooling technology provides the most reliable active cooling solution available today. The SSSLS-CM012-xxx family coolers are SynJet cooling modules developed by Nuventix, Inc. for cooling a Philips Fortimo LED down light module.

## Specifications

Parameter	Øs-a <sup>1,2,3</sup>	SPL (dBA) <sup>4</sup>	TDP <sup>5</sup> (W)	Power W (12V) <sup>6</sup>
SynJet Universal DLM Cooler, Standard	0.63-0.94	19-30	17-48	0-1.8
SynJet Universal DLM Cooler, Standard	0.75	22	40	1.2
SynJet Universal DLM Cooler, High Performance	0.63	30	48	1.8
SynJet Universal DLM Cooler, Silent	0.94	19	32	1.0
SynJet Universal DLM Heat Sink, Passively	1.75	NA	17	NA

Parameter	Min	Typ	Max	Units	Conditions
Voltage	10.8		13.2	VDC	150mV max ripple p-p;
Power Lead					Power (Red wire) Ground (Black wire)
Operating Temperature	0		50	°C	
Storage Temperature	-40		85	°C	
Storage Altitude			15K	m	Above Sea Level
Relative Humidity (operating)	5		95	%	Non-condensing
Weight			600	gr	Without Philips Fortimo LED DLM; 475-HS, 125-SynJet
Agency Certifications					CE, UL, RoHS
Reliability <sup>7</sup>			100K	hrs	L10 @ 50°C

<sup>1</sup> 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.

<sup>2</sup> Thermal resistance is measured from the bottom middle of the heat sink, with a heat source at least 15cm<sup>2</sup>, to ambient air measured at the inlet to the SynJet.

<sup>3</sup> SynJet Cooler is suitable for enclosed fixtures but thermal performance will vary depending on the enclosure

<sup>4</sup> Per ISO 7779

<sup>5</sup> Total Design Power based on a 30°C delta in temperature

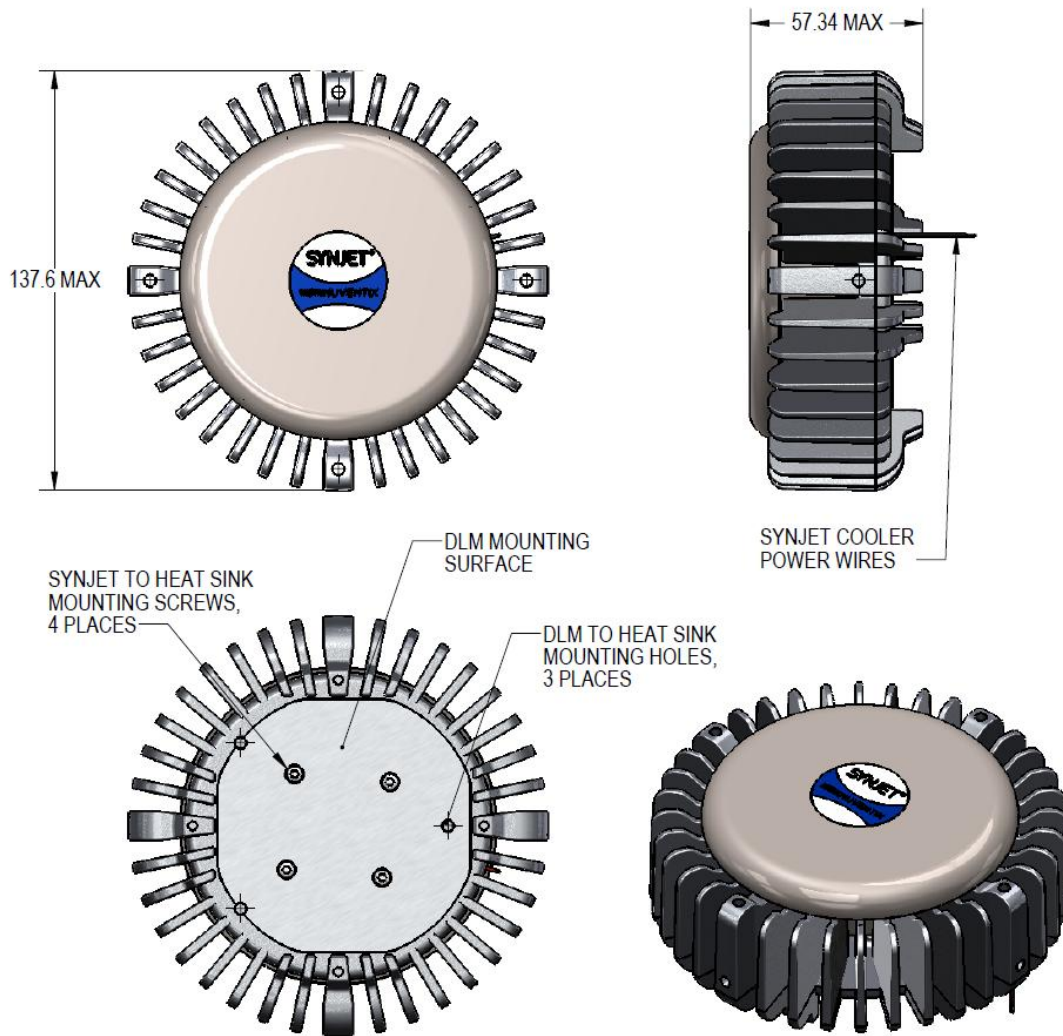
<sup>6</sup> See Nuventix Design Guide for detailed power requirements

<sup>7</sup> L10 is the life for which 90% of a group of modules will meet or exceed the specification

# PRODUCT

## Mechanical drawing

Universal 140 DLM Cooler



All dimensions in mm.

## Part Numbers

Philips Fortimo LED DLM Universal Cooler	Document revision: 1.7
SSSLS-CM012-007	SynJet Universal DLM Cooler, High Performance, 240mm wires
SSSLS-CM012-006	SynJet Universal DLM Cooler, Standard, 240mm wires
SSSLS-CM012-004	SynJet Universal DLM Cooler, Silent, 240mm wires
SSSLS-CM012-011	SynJet Universal, DLM Cooler, Variable Control, 600mm wires
SSSLS-CM012-010	SynJet Universal DLM Cooler, High Performance, 600mm wires
SSSLS-CM012-008	SynJet Universal DLM Cooler, Standard, 600mm wires
SSSLS-CM012-009	SynJet Universal DLM Cooler, Silent, 600mm wires
HSSLS-CALBL-003	SynJet Universal 140, Heatsink, Rectangular (Lexel) LED DLM Cooler
HSSLS-CALBL-002	SynJet Universal 140, Heatsink, Square Fortimo LED DLM Cooler

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