



# ENFIS UNO Light Engine

Smart, compact, efficient, high power LED spot source - total solution

## Features & Benefits

Useable light from a high power spot source

Total solution

Rapid low risk integration with:

- Array on connectorized PCB with mounting holes.
- Separately housed driver module

## Array

Spot source: 0.5cm<sup>2</sup> emitting area

Neutral White (4250K)

R, G, B, A, UV, NIR, Violet

Embedded thermal protection

Long life and reliable performance

## Driver

Safe low voltage system

PWM and Analogue dimming inputs

Smart thermal protection system

40W Capability



## Applications & Markets

- ◆ Lighting
  - Entertainment
  - Retail
  - Exterior street lighting
- ◆ Medical
  - Skin treatment
  - Operating room lighting
  - Neo-natal
  - Dental applications
- ◆ Industrial
  - Forensics
  - Security and surveillance
  - Non-destructive testing
  - LCD backlighting

The 0.5cm<sup>2</sup> Array  
25 high-power LEDs

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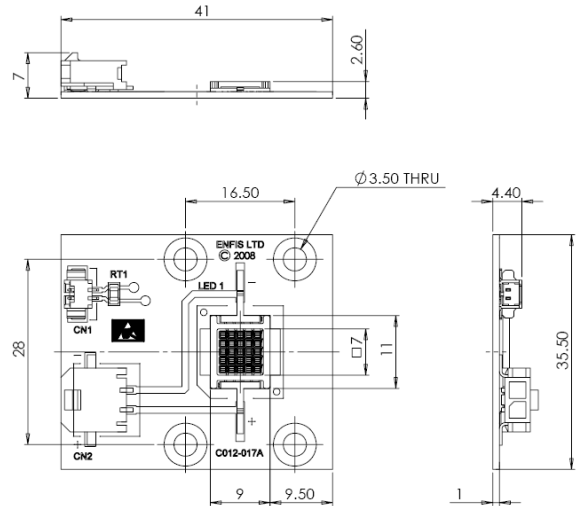
## Technical Specification

### Electro-Optical Characteristics

Colour	Peak Wavelength (nm)	Typ. Light Output (mW)	Typ. Light Output (lm)	Array Electrical Power (W)
SUVA	365	630	-	18
UVA	375	1250	-	18
Violet	405	5100	-	38
Blue	465	6070	350	38
Green	520	2100	980	38
Amber	595	1000	450	22
Red	630	3000	475	22
NIR	870	1700	-	14
Neutral White	3900-4600K	-	1000	38

Please contact Enfis Ltd for further information  
Amber, Red and NIR Power is Limited by Driver Current Supply

Ambient temperature = 25°C



### Electronics: Technical Specification

Operating temperature -10°C to +45°C  
Storage temperature -20°C to +85°C  
Typical Driver Efficiency > 90%

### Input To Driver

Input voltage 24V DC <2A

The results above are based upon a thermal management system with <0.1C/W thermal resistance

#### LED Driver PCB

Efficient LED driver based on switch mode technology  
Temperature monitoring and control  
USB/Serial PC interface

#### Connectivity

TTL interface with USB convertor (USB connector head provided)

#### Thermal Management

The output with the integration kit will be depending on the efficiency of user's thermal management system

#### Handling LED Array

Contact with the encapsulation on the surface of the LED array must be avoided to prevent damage. Do not apply pressure to the encapsulation or allow it to come into contact with sharp objects. During operation the encapsulation will be hot and contact should be avoided.

#### Static Electricity

Care must be taken when handling, these products are sensitive to static electricity . Observe static handling precautions.



#### Cleaning

Avoid touching the LED array surface.  
To clean—BLOW surface with either dry air or nitrogen gas

#### Eye Safety Precautions

The light output of the products may cause injuries to human eyes in circumstances where the products are viewed directly with unshielded eyes for more than a few seconds.

Please refer to IEC 60825-1:2001 for further information



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