



ENFIS UNO Plus Dome Array White Hi-CRI Vari-CCT

Rich Hi CRI spot-source CCT variable with 36 high-power LED's in just 1cm²

Features & Benefits

- Intense, high-power colour changeable high CRI white light spot source
- Superior colour-mixing via dense packaging and interleaving of colours
- Addition of saturated colours improves the richness of colour-mix over conventional white phosphor LEDs
- Long-life and reliable, high-performance due to excellent thermal conductivity
- Simple integration via connectorized PCB with mounting holes

Outline Specification

- Typical power: 1800 Lumens (all channels on)
- High CRI Ra > 90
- White CCT Tuneable CCT from 2800K to >6500K
- Small emitting aperture ~ 1.1cm²
- Input Power: 50W
- Typical thermal resistance <0.8°C/W

Light Engine Integration

Enfis can eliminate the time, cost and risk of integration by offering our arrays as part of a complete light engine solution

Smart Array Technology

Light output from the Enfis arrays can be monitored and controlled via patent-pending integrated photo-detection system, enabling precise control of light output.

Thermal Management

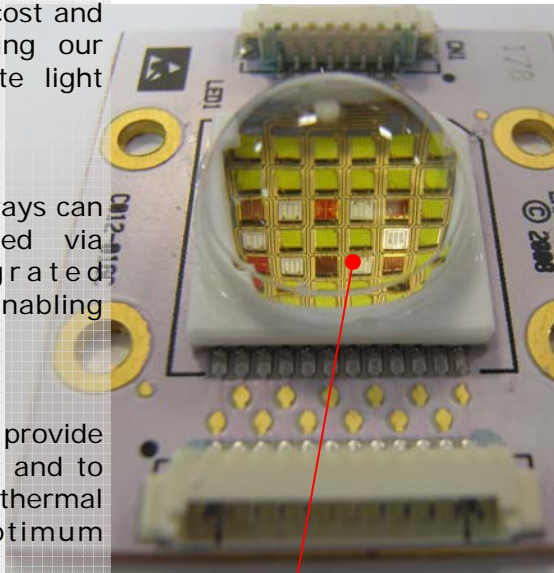
Enfis arrays are designed to provide excellent thermal conductivity and to be integrated effectively with thermal hardware to ensure optimum performance and life

Optics

Enfis UNO-Plus arrays provide excellent spot source with Lambertian emission characteristics. Enfis can provide optical solutions to match your requirements.

Power Management

Enfis provides a range of feature-rich, powerful drivers and power supplies for our arrays. Our applications team can provide you with a solution for your specific requirements.



The 1cm² Array:
36 high-power LEDs
Mixing R/AGBW

Applications & Markets

- Architectural lighting
 - Exterior buried spotlights
 - Exterior floodlights
 - Exterior/interior wall-washing
- Interior White CCT-variable lighting
- Medical Lighting
 - CCT-variable surgical and examination lights
 - High Ra and R9
- Retail lighting
 - CCT-variable tracklights, spotlights and downlights
- Display lighting
- Fibre optic lighting
 - Compact high intensity CCT-changing illuminator light sources



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Technical Specification

Electro-Optical Characteristics

Luminous Efficacy
> 40lm/W
across White CCT
Range

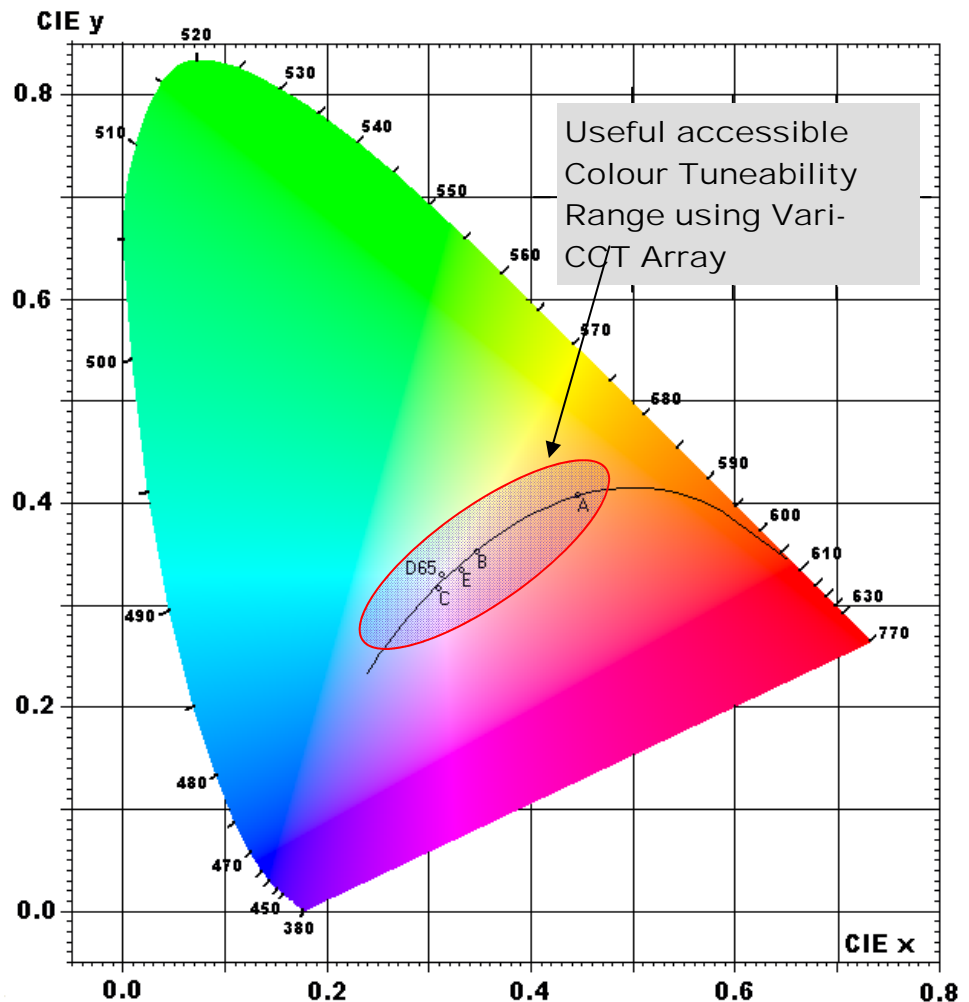
Maximum Power—50W

High CRI—Ra > 90

High R9 component

CCT Range 2800K—
> 6500K

Forward Voltage at
Iop=500mA
per channel
Vf (Ch2-4) ~ 34V
Vf (Ch1) ~ 24V



Heat Generation

Proper thermal design of the end product is of paramount importance. The operational junction temperature of each LED chip should be kept below 125°C.

Please contact Enfis for further support in this matter.

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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