

CLM422

LED Ceiling Luminaire Module



- PATENTED THERMAL SOLUTION FOR MAINTENANCE FREE LONG LIFE
- LIGHT WEIGHT ELIMINATES CEILING REINFORCEMENT
- EASY TO INSTALL / RETROFIT OR NEW CONSTRUCTION

CLM 422 Series

LED Ceiling Luminaire Module



Product Information

The CLM422 LED Ceiling Luminaire Module is the first truly engineered commercial grade (2'x 2') LED office light designed to replace fluorescent fixtures of much higher wattage classes.

It delivers evenly distributed horizontal and vertical foot-candles, ideally suited for typical work spaces and utility areas. The Patented Air Bi-Pass Convection System enables excellent thermal management to ensure long LED life with extended lumen maintenance and virtually zero fixture maintenance.

The CLM422 is the most cost effective, commercially viable solution available on the market today.

Patent No. 20130242548 A1

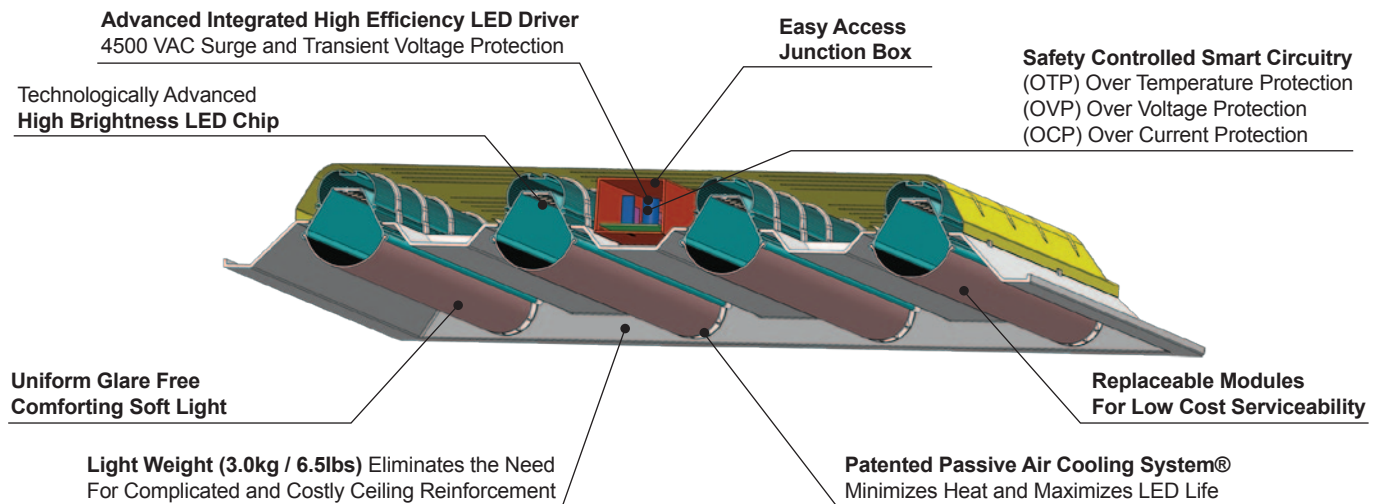
Other US and international patents pending



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Technical Drawing



Advantages of CLM422

- **Standard 2' x 2' LED replacement** ceiling luminaire (troffer) for all office spaces
- **Light Weight (3.0kg / 6.5lbs)** eliminates the need for complicated and costly ceiling reinforcement
- **Glare-Free**, comfortable uniform lighting for all working environments
- **Smart Circuitry System** gives greater protection when used in unstable electrical grids
- Available with Programmable and **RF Wireless Dali Smart Control System with PIR motion sensor** enabling greater flexibility and maximizing savings
- **Replaceable modules** for low cost serviceability
- Patented Passive Air Cooling System enables low LED Junction Temperatures (T_j) for **maintenance free long life**
- **Cost Effective Solution** as a true LED replacement with a 5-Year Warranty
- **Easy to Install**, ideal for retrofit and new construction
- Designed and Engineered in the **USA**

Application

- Commercial Office
- Hospitality
- Healthcare
- Schools

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Features

- CLM422 Light Module is designed to last 80,000 hours with a minimum of 70% Lumen Maintenance
- Available in warm (3000K), neutral (4000K) & cool (5000K) white
- High lumen output & high efficacy
- Ultra-Energy efficient
- Indoor application

Light Module

- Patented Passive Air-Flow Convection® System designed to minimize heat and maximize LED life by reducing junction temperature of the LED
- CLM422 is manufactured using only the highest grade extruded alloys in the construction of each luminaire to maximize performance

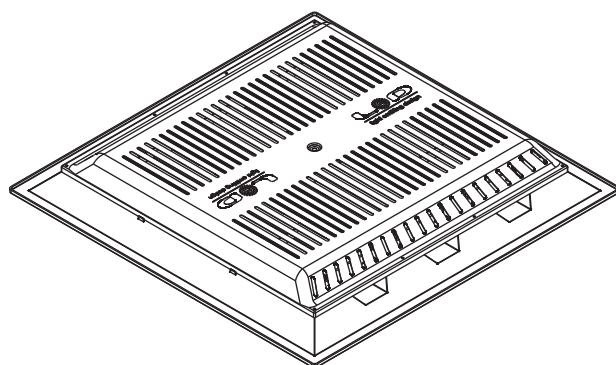
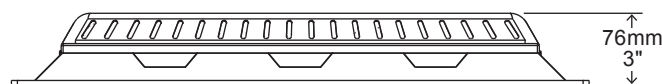
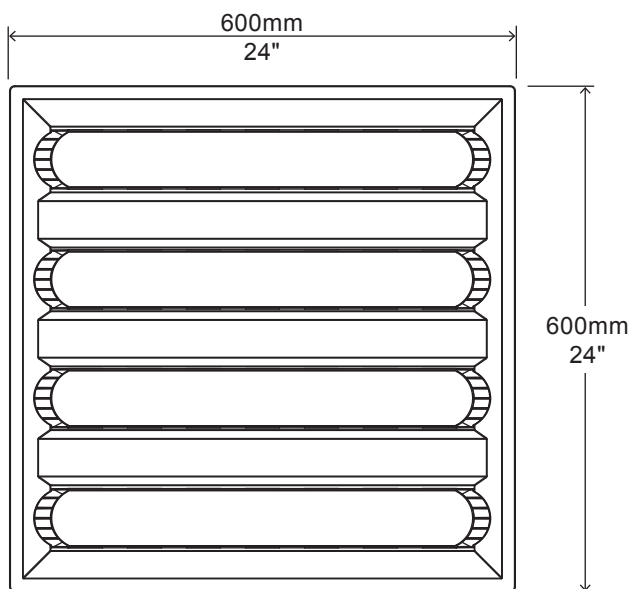
Electronics

- Patented MCPCB Technology enables ultra low LED junction temperatures for maintenance free long life
- Integrated high efficiency LED driver and power supply
- Smart circuitry with surge and transient voltage protection
- Powered by industry leading high brightness LED chip

Optics

- Proprietary reflector and optical diffuser system enables 120° glare-free comforting soft light without the uncomfortable LED “eye piercing effect”

External Dimensions



Packaging Information

| Case Quantity | Dimensions (LxWxH) | Weight |
|---------------|---------------------------------------|---------------------|
| 5 | 65 x 65 x 45 cm 25½ x 25½ x 17¼ in | 21.5 kg 47.4 lbs |

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Ordering Information

| CLM422 | Wattage | | Voltage | | CCT | | Driver | |
|--------|---------|----------|---------|----------------|-----|--|--------|--|
| | | 35 45 | | UV = 90-277VAC | | 30 = 3000K 40 = 4000K 50 = 5000K | | ND = Non-Dimmable DM = Dimmable DS = Dimmable + Sensor |

NOTE: White is the standard housing exterior color. Other colors are available on request.

Example

| Part Number | Part Description |
|------------------|--|
| CLM422-45UV-50DS | 2' x 2' (600 x 600mm) Ceiling Luminaire Module / 45Watt / 90-277VAC / 5000K Cool White / Dimmable with Motion Sensor |

Specification

| | | |
|---|---|---------------|
| Fixture Watts * | 35 Watt | 45 Watt |
| Lumens (Total) * | 3,750 Lumens | 4,450 Lumens |
| Efficacy * | 107 Lumens / W | 99 Lumens / W |
| Number of LEDs & Driving Current | 128@75mA | 160@85mA |
| T _s - Solder Point Temp * | 42°C | 48°C |
| L70 Rating @ T _a 25°C | > 100K hours | > 80K hours |
| Operational Temperature (T _a) | -40°C ~ 50°C | |
| Light Beam Angle | 120° | |
| Input Voltage | 90-277VAC 47~63Hz | |
| LED Model | Nichia | |
| CRI | 85 | |
| Lighting Control | Dimmable (0-10V) / DALI & Motion Sensor | |
| Warranty | 5-Year Limited | |
| Storage Temp. / Humidity | -40°C ~ 80°C / 20 - 95% RH non - condensing | |

* Test data @ T_a: 25°C
NOTE: All Values Have ±7% Tolerance

