LOW-PROFILE & VERSATILE LED MODULE FOR SIGNS

The SUPER NOVA 4 is a premiere low-profile channel letter module. Its compact size makes it suitable for many types of lighting applications and is the best solution for replacement of conventional lighting sources like neon tubes and fluorescent bulbs. The transparent PVC body allows this module to protect itself against indirect weather contact from rain, snow, sun light, and dust, which makes it suitable for both indoor and outdoor used. It also features reverse voltage protection to prevent damage during installation and a constant current system that stabilizes the current thoroughly, for an extended lifetime.

- Life time up to 42,500 hours with 70% lighting output
- *24-Hour constant load may result in less operating hours with lower lighting output.
- Estimated lifetime is based on normal usage of 10 hours per day.
- IP65 weatherproof / waterproof system (Non-submersible)
- Uniform color temperature by strictly controlled system of bin rank
- Transparent PVC body for tough environment protection
- Reverse voltage protection to minimize hassles during installation
- Extremely small and light solution for low-profile channel letters, cove lighting & backlighting applications
- 70% more energy efficiency compared to conventional sign lighting sources
- 3M™ VHB™ Grey Mounting tape for the best long term mounting solution

<table>
<thead>
<tr>
<th>Specifications</th>
<th>SUPER NOVA 4</th>
</tr>
</thead>
</table>

**PHYSICAL**
- Length: 1.42” (36mm)
- Width: 1.42” (36mm)
- Thickness: 0.35” (9mm)
- Weight: 20g
- Lamp Pitch: 0.79” (20mm, 4 LED Lamps)

**OPTICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Available Color</th>
<th>Luminous Flux (lm)</th>
<th>Dominant Wave Length &amp; Color Temperature</th>
<th>Viewing Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Typical: 48lm</td>
<td>Min: 9,100K</td>
<td>2Ω12</td>
</tr>
<tr>
<td></td>
<td>Max: 68lm</td>
<td>Typical: 10,000K</td>
<td>120</td>
</tr>
<tr>
<td>Daylight White</td>
<td>Typical: 48lm</td>
<td>Min: 5,000K</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Max: 68lm</td>
<td>Typical: 6,500K</td>
<td>120</td>
</tr>
<tr>
<td>Warm White</td>
<td>Typical: 43lm</td>
<td>Min: 2,700K</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Max: 62lm</td>
<td>Typical: 3,000K</td>
<td>120</td>
</tr>
<tr>
<td>Red</td>
<td>Typical: 19lm</td>
<td>Min: 623nm</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Max: 25lm</td>
<td>Typical: 625nm</td>
<td>120</td>
</tr>
<tr>
<td>Green</td>
<td>Typical: 38lm</td>
<td>Min: 525nm</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Max: 50lm</td>
<td>Typical: 527nm</td>
<td>120</td>
</tr>
<tr>
<td>Blue</td>
<td>Typical: 8lm</td>
<td>Min: 455nm</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>Max: 9lm</td>
<td>Typical: 460nm</td>
<td>120</td>
</tr>
</tbody>
</table>

* Luminous Flux measuring equipment is CAS140B
* Viewing angle is the off axis angle from lamp center line where the luminous intensity is half of the peak value
* CCT 5% test tolerance
* Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
* Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

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775-636-6060
**Specifications**

**SUPER NOVA 4**

**ELECTRICAL CHARACTERISTICS**
- Current dissipation: 95 mA
- Power Consumption: 1.15W
- Operating power: 12VDC Constant Voltage
- Quantity for maximum connection in serial: 50 modules
- Electronic dimming control supported
- Constant current drive
- Reverse voltage protection

**THERMAL**
- Cooling: Ambient air
- Maximum operating temperature: 140°F (60°C)
- Minimum operating temperature: -13°F (-25°C)
- Maximum storage temperature: 140°F (60°C)
- Minimum storage temperature: -22°F (-30°C)

**SAFETY FEATURES**
- ESD Protection: Industry standard electro-static discharge protection
- IP65: weatherproof / waterproof, prevents water & dust penetration, (Non-submersible)
- Reverse voltage protection: Device will prevent incoming power source on improper input connection

**CONSTRUCTION**
- White LED Lamp: 3 chips white phosphor LED lamp, chip & packaging by Samsung
- Color LED Lamp: 2 chips LED lamp, chip & packaging by Samsung
- Body: PVC (Polyvinyl Chloride) transparent resin, 96% transparency
- PCB: FR-4 fiber glass epoxy resin, quad layered
- Lead wire: Copper wire, semi-rigid PVC, UL VW-1, CSA 80 Celsius 300V

**APPLICATIONS**
- Channel letters - open & closed cover
- Reverse halo lighting
- Border lighting
- Point-Of-Purchasing signage
- Art & Sculpture and cove lighting
- Cove lighting
- Replacement for conventional lighting systems

**APPROVAL**

**FEATURES**

**IP63 WEATHER PROOF**

**Ecolicity LED Lighting Solutions**

3 White Temperatures and 3 Colors to chose from:

- Warm White
- Daylight White
- Bright White
- Blue
- Green
- Red

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