

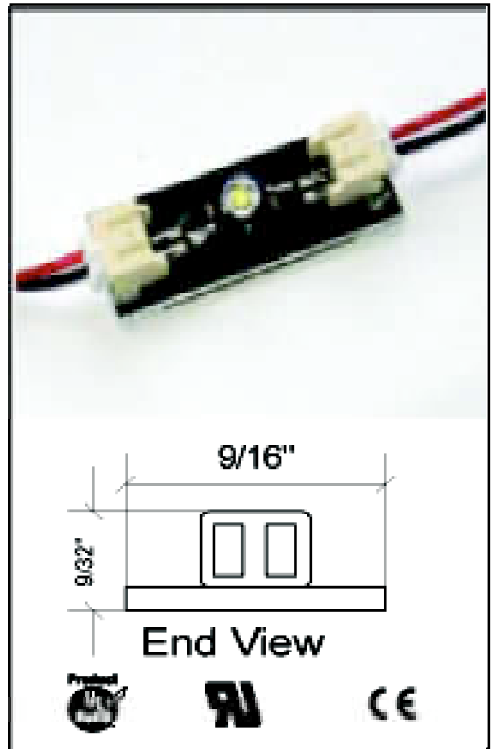
LumenEssence™ LED Back Light Module version 2

Features:

- Long lamp life – typically 50,000 hours
- Simple plug & socket connections
- Thermal adhesive backed PCB
- Pre-assembled wiring
- Compact form factor
- High output Luxeon LED
- Range of compatible drivers
- Warm white and cool white available
- On board series return connection

Applications:

- Glass & transparency backlighting
- Cove and cornice lighting
- Orientation and accent lighting
- Museum reader boards
- Under counters / bars / reception desks
- Light fixtures
- Handrails



Maximum current input: 350mA
 Maximum power consumption:
 1.2W per LED

Color Temperature

	Dom Wavelength / CCT			Typ Luminous Flux (lm) / Radiometric Power (mW)
	Min	Typ	Max	
CW	4500 K	5500 K	10000 K	45 lm
WW	2850 K	3300 K	3800 K	42 lm

Fiberoptics • LED • Automated Searchlights
• Color Change • Specialized Lighting Fixtures

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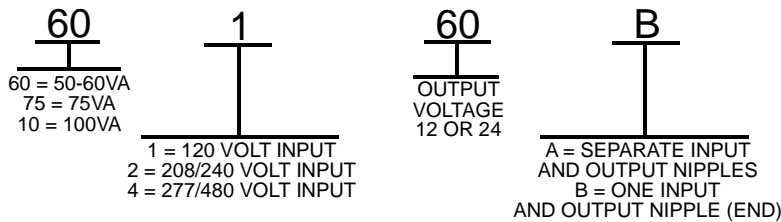
LumenEssence™ LED 1 Watt Single Back Light

Lumileds™ Luxeon© based product

Specifications:

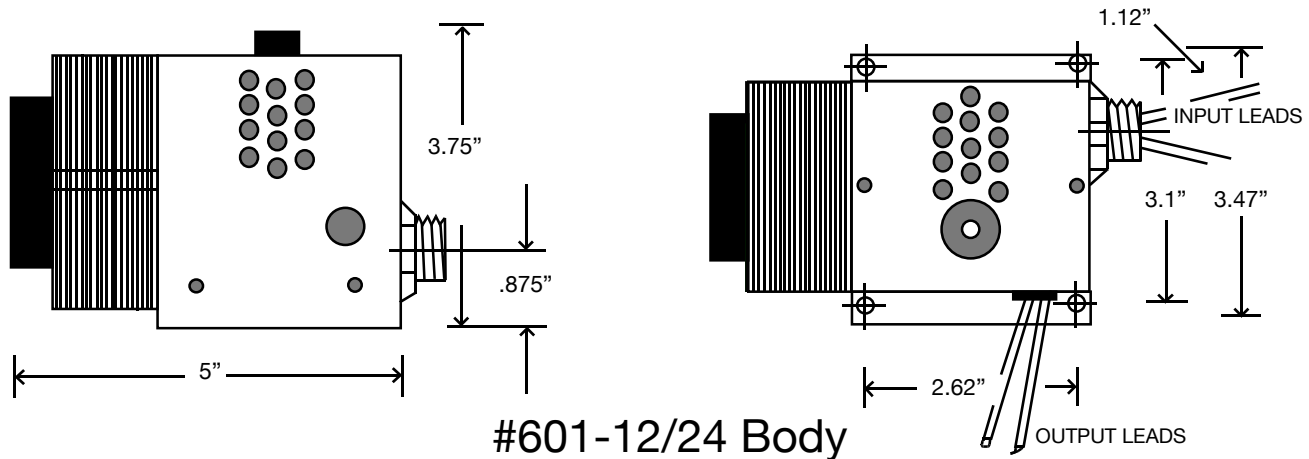
DIMENSIONS: HEIGHT 3.75"
WIDTH 5"
DEPTH 3.5"
WEIGHT EACH: 3.2 LBS
PACKAGE AND WEIGHT: UNITS PER 12X7.5X6.1

INPUT	OUTPUT	MAX RATED LOAD
120V, 60HZ 208-240V, 60HZ 277-480V, 60HZ	12 OR 24V	12V-60VA 24-60V, 75-100VA



Features:

- Circuit breaker secondary
- Mounting feet
- Input and output leads with 1/2" nipples located for direct "J" box entry
- UL Listed (meets or exceeds the requirements set forth in standard for safety UL1585)
- Model 601-24:
drives 40 back light modules
- Model 2240-24:
drives 120 back light modules
- Consult factory for the power supplies & layout assistance



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Custom Lighting Fixtures

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LumenEssence™ 2 watt LED Back Light Module Dual Back Light Module

Applications:

- Replaces fluorescent and cold cathode in light boxes and duratrans
- Great for backlighting glass walls, floors, small museum reader boards, and short throw applications
- Two 1-watt high output Lumileds LEDs on an integrated circuit board
- On board voltage conversions and power correction
- Fully integrated heat sink on back of circuit board
- 24 volt input / standard transformer compatible
- No expensive DC drivers
- One module effectively illuminates 1 square foot at 4.5 inches from diffuser / opaque panel: 2 watts per square foot (tested with KSH plastic light diffuser, mock-up recommended for frosted glass)
- For higher super light output, concentrate more modules easily
- Very small 5/8 inch high mounted circuit board
- 1 inch by 5 inches long
- Rugged metal edge connectors and terminal block
- Connect up to 20 modules from one secondary feed
- Pre-installed input and output wire pairs with connectors
- Single 1-watt modules available by special order

Features:

- No UV
- Fully dimmable
- Superior ESD protection
- Low voltage DC operated
- Cool beam, safe to the touch
- Instant light (less than 100 ns)
- Highest flux per LED in the world
- More energy efficient than incandescent lamps and most halogen lamps: 1-watt per LED



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