

CUSTOMER CASE STUDY

Tech Lighting Unilume:

Innovation for Undercabinet Lighting

CUSTOMER

Tech Lighting

PROJECT

Enter undercabinet lighting space with LED product meeting quality standards

CHROMALIT™ USED

ChromaLit Linear

BLUE LED SUPPLIER

T-Opto, a Toyota Tsusho business

IMPROVEMENT

Improved efficiency and glare-free, consistent light from LED undercabinet lighting



Tech Lighting Unilume – shown on

“We decided to enter undercabinet lighting only if we knew we could advance the category, and with Intematix's ChromaLit technology, we are confident we can do just that.”

*– Josh Weiss
General Manager
Tech Lighting*



Tech Lighting, a Generation Brands company, offers a family of decorative accent lighting known for sophisticated, modern designs combined with the latest advancements in lighting technology and expert craftsmanship. For the Unilume, Tech Lighting set out to solve the issues faced by existing LED undercabinet lighting: hot spots, glare, multiple shadows, and unnecessarily deep enclosures. Utilizing an Intematix ChromaLit™ remote phosphor light source, tightly-clustered blue pump LEDs, and a 98% reflective mixing chamber, the Unilume offers consistent illumination with ultra high efficacy – all in an enclosure that is less than 3/4 of an inch deep.

INTEMATIX

www.intematix.com
chromalit@intematix.com

Snapshot:

- Improved efficiency with 30 LEDs per foot consuming just 7 and 9 watts.
- Eliminated distracting ‘multi-shadows’ and provides consistent, even illumination
- Improved color consistency over time
- Removing diffusing lens allowed 50-60+ lumens per watt depending on length.
- ChromaLit solution allows multiple color temperature and CRI options.



Unilume White – shown off

Consistent, Even Illumination

Unlike a typical LED system, where discrete LEDs cause glare and multiple shadows, ChromaLit technology enabled Tech Lighting to make a glare-free undercabinet light. Whether incorporated into upscale retail displays or residential task lighting, the Unilume ensures a steady, even wash of superior illumination that is both practical and attractive. And because the phosphor sits away from the chip on the remote phosphor element, the color is more resistant to degradation and therefore consistent over time.

High Efficacy

In order to minimize glare created by individual LEDs, most traditional products utilize a diffusing lens creating an efficiency loss of 15% to 35%. In fixtures without a diffusing lens, high efficiency can be achieved at the cost of significant glare. With ChromaLit, Tech Lighting could avoid the diffuser, which helped them achieve 50-60+ lumens per watt depending on length.

Multiple Color Temperature and CRI Options

While the typical LED undercabinet is offered in one color temperature and 80 CRI, the flexibility of ChromaLit enables Tech Lighting to offer the Unilume in both 2700K and 3000K, as well as 80+ and 90+ CRI options.

Unilume product details:

Unilume is being offered in 13-inch and 19-inch lengths. Jumper connectors make it easy to link one unit to another. An integrated LED driver eliminates the need for an external power supply and allows for smooth dimming down to 15% using either a TRIAC incandescent dimmer or a low-voltage electronic dimmer. It is available in 2700K or 3000K as well as 80+ CRI or 90+ CRI for the most discerning applications. The Unilume system offers minimalist yet rugged design, with heavy-gauge aluminum housing and die-cast steel end-caps, all sitting less than ¾" deep.

Visit Tech Lighting on the web: techlighting.com

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