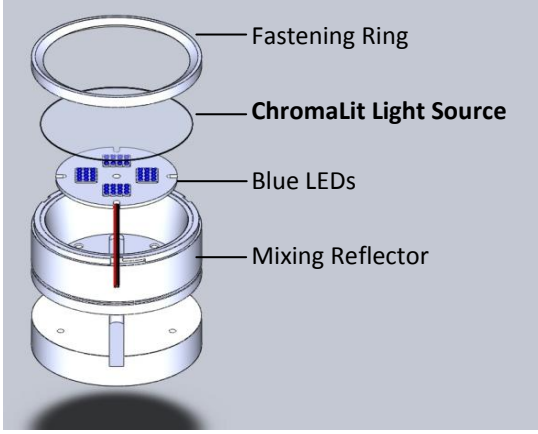
Intematix

Intematix ChromaLit™

Demonstration Kit User Guide

Welcome to your Intematix ChromaLit™ demonstration kit. ChromaLit™ offers lighting module and luminaire makers greater design freedom, improved operational efficiency, exceptional light quality and higher system efficacy. The ChromaLit kit will allow you to experience the latest Intematix technology for yourself.

ChromaLit Reference Design Module



ChromaLit Demo Kit

Operation Instructions

To operate the ChromaLit™ Kit,

1. Insert choice of ChromaLit™ glossy side up
2. Twist the fastening ring onto the mixing reflector
3. Connect the blue LED module to the power source
4. Point the light away from eyes (i.e. against a wall) and push the button to see the uniform light pattern emitting from the module.
5. Easily interchange the ChromaLit™ units by unscrewing the fastening ring.

Caution: Intense blue light may be harmful to eyes. Do not look directly into light.

The demo kit provided here is intended to be a reference. Optimization of the mixing reflector geometry and external optics will help provide higher color uniformity, customized beam angle, and improved efficacy.

Please contact your Intematix representative with any questions.

For details on ChromaLit product specifications, please visit www.intematix.com/ChromaLit

The CAD drawing of the reference design mixing chamber is available upon request. Please contact ChromaLit@intematix.com for a copy of the reference design.

46410 Fremont Boulevard, Fremont, CA 94538 Phone: (510) 933-3300 Fax: (510) 668-0793 www.intematix.com

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ChromaLit Demonstration Performance

Blue LED Module Performance

Input Power ($W_{electrical}$)	Radiant Flux (W_{rad})	Efficacy ($W_{rad}/W_{electrical}$)
13W	5.3W	40%

For better performance results, other blue LEDs may be exchanged with those included for evaluation.

ChromaLit + Blue LED Module Performance[1]

CCT	Input Power	Flux	CRI	Conversion Efficacy[2] (Lm/W_{rad})	System Efficacy (Lm/W)
2700K	13W	1000lm	90	145	60
3000K	13W	1000lm	80	200	80
3500K	13W	1100lm	80	205	85
4000K	13W	1100lm	80	210	85
5000K	13W	1200lm	70	230	92

[1] Performance values were based on pulse measurement using external power supply. Estimated values only. Actual results may vary.

[2] Conversion Efficacy is the luminous flux (white light) output per radiant watt of blue light input to the ChromaLit light source. W_{rad} is the radiometric power measured in watts. Conversion efficacy is rated based on reference operation and dominant blue LED wavelength of 455nm.

Testing Instructions

ChromaLit Demo Kits are provided as-is and are intended to demonstrate the capabilities of Intematix ChromaLit light sources. ChromaLit samples should be considered as engineering prototypes and are not intended to meet final product specifications.

When operating for an extended period time, adequate thermal interface is required. Heat sink and thermal grease can be mounted to the bottom of the LED module. For optimal performance, connect LED module to an external power supply instead of the battery pack.




For additional support call toll-free 1-855-CHROMALIT or email ChromaLit@intematix.com.