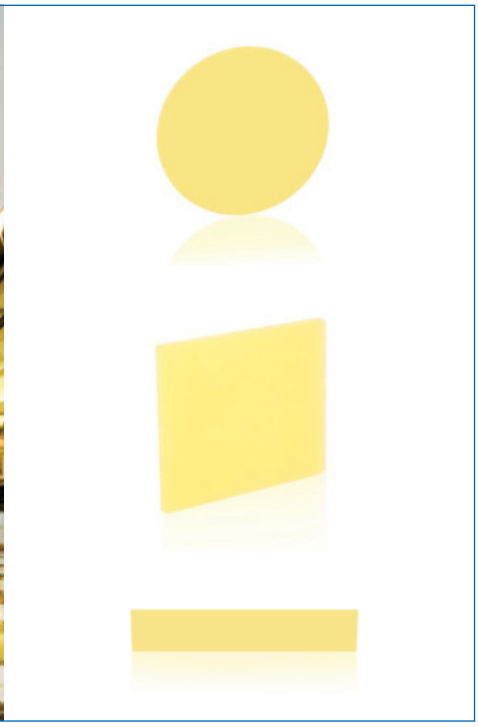
CUTSHEET

Intematix ChromaLit™ XT

Remote Phosphor Light Source: *Round, Square & Linear*



ChromaLit XT offers powerful elegance for brilliant lighting design. Power comes from a very high operating temperature and efficiency enabling thousands of lumens from a small light emitting area, ideal for spots and other lighting modules. Elegance is a result of ChromaLit XT's neutral off-state color making it the first choice for attractive light fixture designs. With reliability second to none, ChromaLit XT offers a new range of long life applications in downlights, pendants, troffers, high bay and outdoor lighting. With the increased lumens, neutral off-state color, high reliability and efficiency of ChromaLit XT, we make lighting better.

Features & Benefits

- High operating temperature / high lumen output
- Off-state neutral color
- Meets V0 flammability requirement and UV resistant
- Up to 30% higher system efficacy compared to conventional LED lighting designs lighting products and systems
- Unprecedented design freedom for solid state lighting products and systems
- Streamlined supply and production of luminaires
- Glare-free and uniform light quality
- High CRI
- Consistent color matching
- Powered by radiant energy from blue LEDs, lasers and OLEDs

Applications & Uses

- Spots and Floods
- Downlights
- Track lighting
- High temperature and high intensity applications
- LED modules
- High bay and industrial lighting
- Entertainment lighting
- Outdoor street and area lighting
- Task lighting
- Troffers and ceiling tiles

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Performance Characteristics[1]

Product	CCT[2] (K)	Min[3] CRI	Typical Conversion Efficacy[4] (lm/W_{rad}) at 25°C	Max Operating Temperature (°C)
CL-827	2700	80	180	180
CL-927	2700	90	161	
CL-830	3000	80	202	
CL-930	3000	90	165	
CL-835	3500	80	210	
CL-840	4000	80	218	
CL-750	5000	70	230	

[1] **Reference Operation** Product performance based on reference design. Please refer to application note for detail on reference design.
[2] **Correlated Color Temperature**
[3] **Minimum Color Rendering Index**
[4] **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to ChromaLit. W_{rad} is the radiometric power measured in watts. Conversion efficacy is rated based on reference operation and dominant blue LED wavelength of 455nm (peak wavelength of 450nm).

Product Offering

Product	Dimension	Lumen Range[5]	Substrate Material
ChromaLit XT Round	22.5mm – 100mm	500-10000	Glass
ChromaLit XT Square	65mm, 95mm	5300-11300	
ChromaLit XT Linear	152.5mm x 22.5mm	4300	

[5] **Lumen Range** System lumen output depends on thermal management used and may vary widely.

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Please contact a sales representative to request a demonstration kit and for full product details.
For more information contact **ChromaLit@Intematix.com**