



# D50 LED Color Viewing Lamp

ISO 3664:2009 Compliance | Accurate Color Viewing | 5000K



**GTI has developed an LED lamp that offers a high Color Rendering Index (CRI) LED solution for Graphi-lite D50 viewing systems. This new lamp combines the benefits of LED technology with a close match to the D50 spectral specifications, ensuring tight conformance to the ISO 3664:2009 viewing standard.**

## New LED Color Viewing Systems

Graphi-lite D50 viewing booths, wall viewing systems, and overhead luminaires can be purchased with D50 5000K LED lamps.

## LED Upgrades to Existing Systems

GTI offers two solutions to upgrade to Graphi-lite D50 LED technology. The first is to purchase a new luminaire that can easily be installed into your existing 48" or 60" viewing booth.

The second path is to purchase an LED upgrade kit. Each kit includes D50 LED lamps, instructions, and any necessary components (lens, lamp holders, etc.) needed to complete the upgrade. The LED lamp will be directly wired to the AC power line, bypassing the ballast. The person doing the upgrade must have knowledge of wiring and be able to understand a wiring diagram.

GTI's LED upgrade options represent the most cost-effective way to transition from fluorescent to LED lamp technology. Contact GTI for pricing.

## Key Advantages:

- Available in new 48" and 60" luminaires
- Retrofittable to existing luminaires
- ISO 3664:2009 compliance
- High CRI (Ra>98)
- Environmentally friendly
- High-efficiency, energy saving LED technology
- Long lifetime
- Instant on/off
- Low heat output

## Specifications

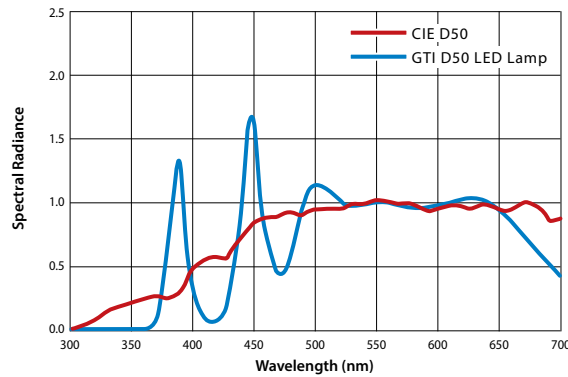
GTI Part Number	TL48T10/GL50
Standard Illuminant	CIE D50
Color Temperature	5000K
Color Rendering Index (CRI)	>98
Flux Minimum	2000 lm
Safety Certification	CE, FCC
Viewing Standard	ISO 3664:2009
Expected Life (ISO 3664 Conformance)	7,500 hours
Watts	26 W
Lamp Input Voltage	100 to 240 VAC
Length (pin to pin)	48" (1,212.5 mm)
Diameter	1.30" (33.0 mm)
Base Type	G13



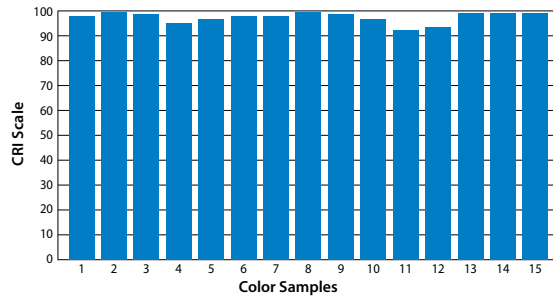
*GTI's D50 LED lamp provides an optimal viewing solution in any environment.*



## Color Performance Data of GTI D50 LED Lamps



The best color rendition is achieved by having the closest match to the spectral power curve of the industry aim point of D50. GTI's Graphiclite® D50 LED lamps deliver a very tight match to the D50 curve resulting in superior color fidelity and tight compliance to the ISO 3664:2009 viewing standard.



**Color Rendering Index (CRI)** is a quantitative scale that measures the quality of color shown by a light source. The CRI scale ranges from 0 to 100, with higher CRI values being equivalent to better color representation. As shown above for the 15 industry standard color samples, GTI's Graphiclite D50 LED lamps have a CRI above 98, one of the highest in the industry.

### Models Available With D50 LED Lamps

Viewing Booths	All CVX models; EVS-3052, and EVS-4052
Vertical Print Inspection Systems	VPI-52
Wall Viewing Systems	48" and 60" GLL and GLE models
Overhead Luminaires	48" GLL and GLE models

Contact GTI for an LED product price list.

GTI is a leading manufacturer of tight tolerance lighting systems for critical color viewing, color communication, and color matching. An in-house spectroradiometric laboratory and a 100% measurement and verification production process guarantees that precision and accuracy is built into all products. All products are shipped with a certificate of product conformance (NIST traceable).

### Color Data

CCT	5030	K	Duv	0.004347
u	0.2088		u'	0.2088
v	0.3272		v'	0.4908
X	95.708		x	0.3479
Y	100		y	0.3635
Z	79.389		z	0.2886

### CRI Data

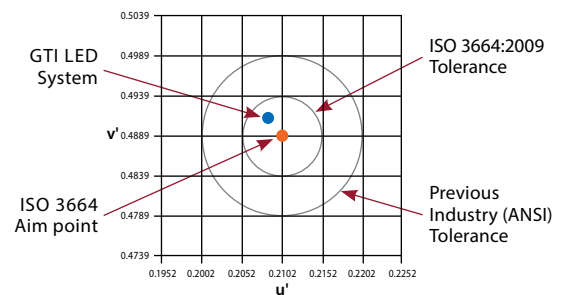
Ra	98.47		
R1	99.84	R5	97.85
R2	99.64	R6	98.59
R3	98.99	R7	98.80
R4	95.58	R8	99.46

### Total Band Output

Total Irradiance	840.311	uW/cm <sup>2</sup>
Selected Irradiance	0	uW/cm <sup>2</sup>
Total Illuminance	2268.21	lux
PAR	33.893	μmol/m <sup>2</sup> /s
Luminous Intensity	2268.21	cd

### Color Quality

CIE 1976 UCS Chromaticity Diagram



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