

GE Cinema Fluorescent Lamp Product List

Linear Cinema 5500° Kelvin Daylight

Nominal Watts	Description	GE Product Code	Nominal Length	Initial Lumens	Design Life(hrs)	CRI	Pack Quantity
35	F20T12/CIN55/HO	15713	24" (610mm)	1100	2000	96	24*
35	F20T12CIN55HOCVCG	15776	24" (610mm)	1100	2000	96	24
35	F24T8CIN32/CVCG	72659	24" (610mm)	1300	2000	97	24
55	F48T8/CIN55	81206	48" (1219mm)	2750	2000	97	24
55	F48T8/CIN55/CVCG	81208	48" (1219mm)	2750	2000	97	24
75	F40T12/CIN55/HO	15717	48" (1219mm)	2820	2000	96	30*
75	F40T12CIN55HOCVCG	15783	48" (1219mm)	2820	2000	96	30
85	F72T12/CIN55/HO	15719	72" (1829mm)	4050	2000	96	15*
85	F72T12CIN55HOCVCG	15786	72" (1829mm)	4050	2000	96	15
110	F96T12/CIN55/HO	15721	96" (2438mm)	5650	2000	96	15*
110	F96T12/CIN55HOCVCG	15798	96" (2438mm)	5650	2000	96	15

All with Bulb diameter of 1.5"(38mm), G-13 Medium BiPin base,+/-5m (+magenta,- green) color compensating filter value limit(cc). CIE coordinates x=.330 y=.335.

Linear Cinema 3200° Kelvin Tungsten

Nominal Watts	Description	GE Product Code	Nominal Length	Initial Lumens	Design Life(hrs)	CRI	Pack Quantity
35	F20T12/CIN32/HO	15712	24" (610mm)	1130	2000	95	24*
35	F20T12CIN32HOCVCG	15775	24" (610mm)	1130	2000	95	24
35	F24T8CIN32/CVCG	72658	24" (610mm)	1300	2000	95	24
55	F48T8/CIN32	81205	48" (1219mm)	2750	2000	95	24
55	F48T8/CIN32/CVCG	81207	48" (1219mm)	2750	2000	95	24
75	F40T12/CIN32/HO	15716	48" (1219mm)	2900	2000	95	30*
75	F40T12CIN32HOCVCG	15782	48" (1219mm)	2900	2000	95	30
85	F72T12/CIN32/HO	15718	72" (1829mm)	4150	2000	95	15*
85	F72T12CIN32HOCVCG	15785	72" (1829mm)	4150	2000	95	15
110	F96T12/CIN32/HO	15720	96" (2438mm)	5800	2000	95	15*
110	F96T12CIN32HOCVCG	15794	96" (2438mm)	5800	2000	95	15

All with Bulb diameter of 1.5"(38mm), G-13 Medium BiPin base,+/-5m (+magenta,- green) color compensating filter value limit(cc). CIE coordinates x=.415 y=.377.

Compact Cinema High Lumen Biax®

Nominal Watts	Description	GE Product Code	Nominal Length	Initial Lumens	Design Life(hrs)	CRI	Pack Quantity
55	F55BX/STUDIOBX32	41869	21" (536mm)	4100	8000	86	40
55	F55BX/STUDIOBX56	41873	21" (536mm)	4100	8000	89	40
55	F55BX/CINPLUS/32	41903	21" (536mm)	2400	2000	92	40
55	F55BX/CINPLUS/55	41911	21" (536mm)	2400	2000	95	40

All with T5 bulb diameter, 2G11 4 pin base. 3200 degree lamps are CIE of x=.415 y=.377. 5500 degree lamps are x=.330 y=.335.

Usage Guidelines

Warm Up time

Allow at least one half hour stabilization time before checking color. Color will drift (mostly the mired shift or LB value) during the warm up period. (This applies to both new and used lamps)

Ballast Compatibility

Assure that the correct type of ballast is used with GE Cinema Fluorescent lamps. Use HO lamps with high current ballasts. If brightness control through dimming is desired, be sure to specify ballasts designed for dimmability.

*Available in North America only

For additional product and application information, please consult GE's Website:
www.gelighting.com

Information provided is subject to change without notice. Please verify all details with GE. All values are design or typical values when measured under laboratory conditions, and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

GE Consumer & Industrial Lighting

Cinema Fluorescent

For your best lighting performance



SHOWBIZ®

for stage, studio and event lighting



imagination at work

GE Cinema Fluorescent provide predictable color for standard film processing.

In the entertainment industry, the use of color film has always been based on tungsten incandescent lighting. With the introduction of fluorescent lighting in 1939 it was discovered that cool white fluorescent and triphosphor lamps did not work well with film. Extensive filtering was required, resulting in loss of light and added cost and labor. GE Cinema fluorescent lamps have phosphor blends which better match daylight (5540° K) and tungsten (3200° K) spectra. This provides predictable color for standard film processing, without the need for expensive filtering. GE Cinema 32 and 55 in T8 and T12 sizes have corrected these deficiencies with products that now have CRI's of 95 and colors that respond to the spectra sensitivity curves of film and electronic imaging media.

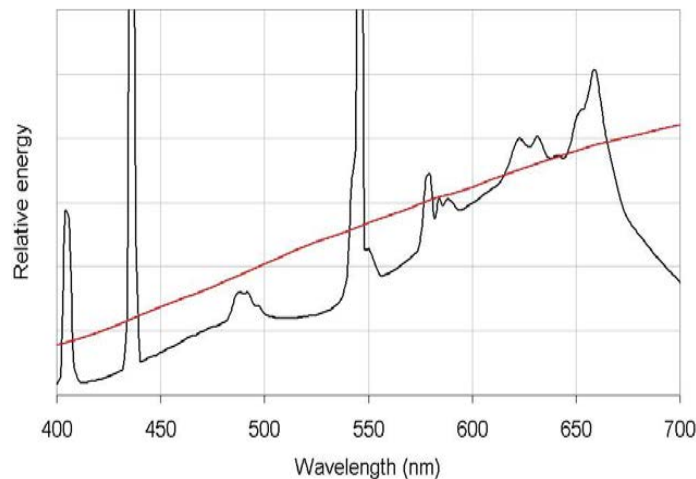
CovRguard® GE Cinema 32 and 55 are sealed for your protection

GE's Cinema 32 and 55 offer the option of exclusive shatter-resistance covRguard® that helps contain glass fragments if the lamps are broken. This reduces the possibility of glass-related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missed deadlines. GE's covRguard® process wraps the Cinema lamps in a full 15 mil thick casing of GE's exclusive Lexan® that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike many other shatter resistant lamps, GE's covRguard® lamps require no assembly. The covRguard® process offers maximum protection with minimum light loss... the lowest loss of initial light of any shielded product.

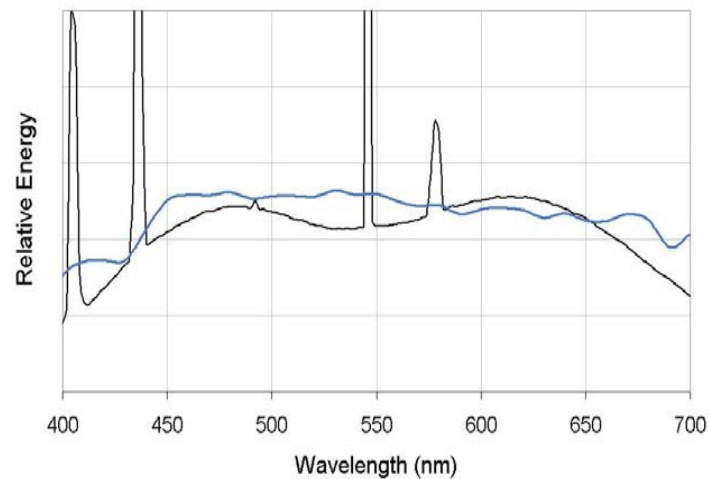
Matching phosphors blends to film light reference sources.

GE's Cinema fluorescent uses full spectrum phosphor blends to match the 3200° K tungsten (Chart 1) and 5540° K daylight (Chart 2) spectrum. Final match is done using Minolta Ilif meter as a gage for determining filtering needs which become the effective color specification limits.

Cinema 32 vs. Tungsten 3200° K (Chart 1)



Cinema 55 vs. Daylight 5540° K (Chart 2)

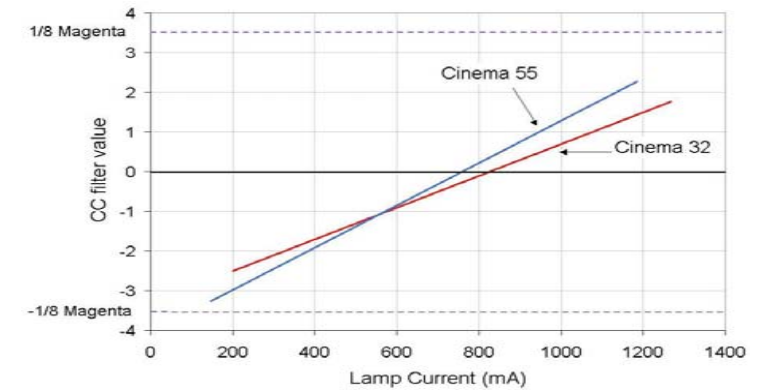


A full range of operating currents and dimming conditions can be used without requiring added filtration.

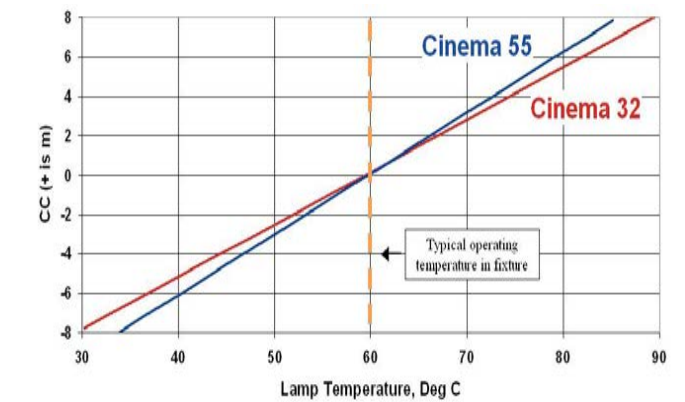
GE's Cinema lamps are designed to eliminate the need to add filters for color correction. There is minimal color shift (after 20 minutes of equilibrium) assuming typical fixture temperature (Chart 3) and lamp current (Chart 4). Brightness decreases are minimal over time (Chart 5).



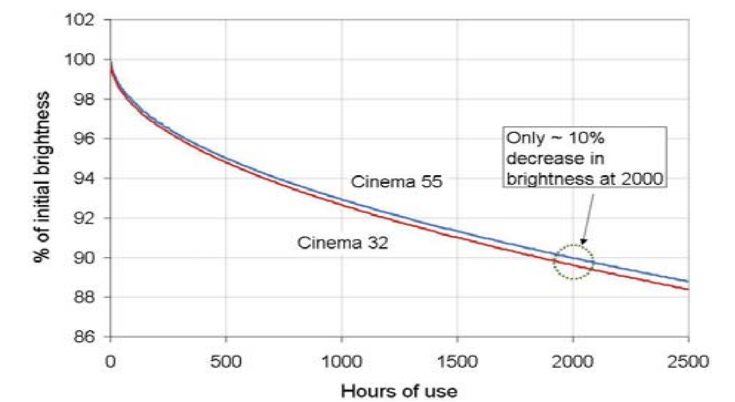
Color vs. Lamp Current for T12HO Cinema Lamps (Chart 3)



T12HO CC Index vs. Lamp Temperature (Chart 4)



Minimal Brightness Decrease with Age (Chart 5)



Compact Cinema High Lumen Biax®

GE also offers 55 watt HLBX lamps in Cinema Plus for film application and StudioBiAx for TV studio and Video applications. Both lamps are color tuned to match tungsten and daylight lamp sources.

The Cinema Plus is recommended for film use. This "Film Friendly" matches the spectral sensitivity of tungsten or daylight film stock. This full-spectrum design has a CRI up to 95 and is a gel-free light source.

The StudioBiAx is a perfect solution for TV and Video applications where high light output, long life and great lumen maintenance are the key needs. The StudioBiAx is a tri-phosphor lamp color tuned to 3200° K and 5500° K to match tungsten and daylight sources in a studio setting.

Film - Cinema Plus BiAx®

- Soft light (film friendly) lamp used in film applications
- Tungsten 3200° K and Daylight 5500° K colors available
- Matches spectral sensitivity of film
- Gel-free light sources (CC and LB = 0)
- No color shift with ballast current change (dimming)

TV (Live Studio) - StudioBiAx

- Ideal for 24 hour News broadcast studios
- Exceptional light output
- Cooler operation - comfort of the talent
- Excellent lumen maintenance
- Color tuned to Tungsten 3200° K and Daylight 5500° K