

# LINEAR FLUORESCENT

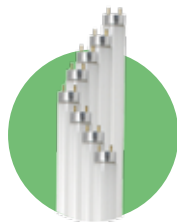
*Optimize Task Lighting*

USHIO's linear fluorescent lamps are well known for their performance as office lighting. Not only do these lamps reduce energy costs, their long lamp life allows for a reduction in maintenance costs. These lamps promote an efficient working environment and help you and your business make great strides. People choose USHIO's linear fluorescents because productivity should not be compromised.



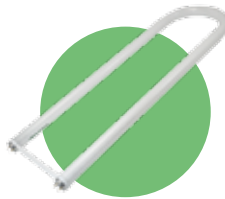
#### **ULTRA5™ T5**

- T5 Energy Saving
  - T5 High Output
- Pg38



#### **ULTRA8™ T8**

- T8 XL Long Life
  - T8 Energy Saving
- Pg39



#### **ULTRA8™ T8 U-BEND**

Pg42



#### **ULTRA5000™ T10**

Pg43



# LINEAR FLUORESCENT

## T5 FLUORESCENT LAMPS

### ULTRA 5™ T5 SERIES

- Energy Efficient
- Linear Fluorescent Lamps
- Compact Lamp Diameter
- 2-Pin Base - G5
- Universal Burn Position



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Avg Rated Life* (h)	Commercial Life** (h)	Case Qty
			Dia (A)	MOL (mm)	MOL (in)					
<b>ULTRA 5™ T5 Preheat 1,3 (Sold in Case Quantity Only)</b>										
4	3000107 ‡	F4T5CW	0.61	150	6	4200	140	6000	7500	100
4	3000108	F4T5D	0.61	150	6	6500	95	6000	7500	100
6	3000112	F6T5CW	0.61	226	9	4200	280	7500	9300	100
6	3000113 ‡	F6T5D	0.61	226	9	6500	210	7500	9300	100
8	3000119	F8T5WW	0.61	302	12	3000	400	7500	9300	100
8	3000117	F8T5CW	0.61	302	12	4200	400	7500	9300	100
8	3000118 ‡	F8T5D	0.61	302	12	6500	350	7500	9300	100
13	3000070 ‡	F13T5WW	0.61	531	21	3000	820	7500	9300	25
13	3000068	F13T5CW	0.61	531	21	4200	820	7500	9300	25
13	3000069	F13T5D	0.61	531	21	6500	700	7500	9300	25
<b>ULTRA 5™ T5 High Efficiency (Standard) 2,3 — 85 CRI (Sold in Case Quantity Only)</b>										
14	3000377	F14T5/830	0.61	563	22	3000	1350	35000	40000	25
14	3000459	F14T5/835	0.61	563	22	3500	1350	35000	40000	25
14	3000378	F14T5/841	0.61	563	22	4100	1350	35000	40000	25
21	3000380	F21T5/830	0.61	863	34	3000	2100	35000	40000	25
21	3000460	F21T5/835	0.61	863	34	3500	2100	35000	40000	25
21	3000381	F21T5/841	0.61	863	34	4100	2100	35000	40000	25
28	• 3000383	ⓔ F28T5/830	0.61	1163	46	3000	2900	35000	40000	25
28	• 3000462	ⓔ F28T5/835	0.61	1163	46	3500	2900	35000	40000	25
28	3000384	ⓔ F28T5/841	0.61	1163	46	4100	2900	35000	40000	25
28	3000385	ⓔ F28T5/850	0.61	1163	46	5000	2800	35000	40000	25
35	3000386	F35T5/830	0.61	1463	58	3000	3650	35000	40000	25
35	3000463	F35T5/835	0.61	1463	58	3500	3650	35000	40000	25
35	3000387	F35T5/841	0.61	1463	58	4100	3650	35000	40000	25
<b>ULTRA 5™ T5 High Output 2,3 — 85 CRI (Sold in Case Quantity Only)</b>										
24	3000389	F24T5HO/830	0.61	563	22	3000	2000	35000	40000	25
24	3000461	F24T5HO/835	0.61	563	22	3500	2000	35000	40000	25
24	3000390	F24T5HO/841	0.61	563	22	4100	2000	35000	40000	25
39	3000392	F39T5HO/830	0.61	863	34	3000	3500	35000	40000	25
39	3000464	F39T5HO/835	0.61	863	34	3500	3500	35000	40000	25
39	3000393	F39T5HO/841	0.61	863	34	4100	3500	35000	40000	25
54	• 3000395	ⓔ F54T5HO/830	0.61	1163	46	3000	5000	35000	40000	25
54	• 3000458	ⓔ F54T5HO/835	0.61	1163	46	3500	5000	35000	40000	25
54	• 3000396	ⓔ F54T5HO/841	0.61	1163	46	4100	5000	35000	40000	25
54	• 3000397	ⓔ F54T5HO/850	0.61	1163	46	5000	4900	35000	40000	25
<b>ULTRA 5™ T5 High Output Energy Saving 2,3 — 85 CRI (Sold in Case Quantity Only)</b>										
49	• 3000624	ⓔ F49T5HO-ES/835	0.61	1163	46	3500	4900	30000	36000	25
49	• 3000625	ⓔ F49T5HO-ES/841	0.61	1163	46	4100	4900	30000	36000	25
49	• 3000626	ⓔ F49T5HO-ES/850	0.61	1163	46	5000	4800	30000	36000	25

ⓔ = This bulb meets US Federal Minimum Efficiency Standard • TCLP Compliant

\* Based on ANSI / IESNA standards of 3 hours per start

\*\* Based on estimated commercial operating standards of 12 hours per start

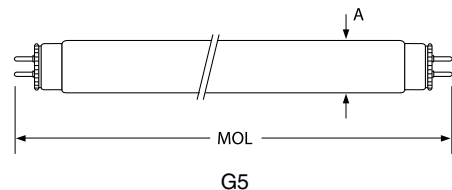
1 These lamps are designed to operate on preheat ballasts.

2 These life ratings are based on operation on rapid start or programmed rapid start ballasts.

3 When using dimmers, dimming systems, or occupancy sensors, the lamp life will also be affected. The dimming system manufacturer can advise the affect of their system on lamp life.

All dimensions shown in inches unless otherwise noted.

‡ Special Order Item.



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Manage in Accord with Disposal Laws. Visit [www.lamprecycle.org](http://www.lamprecycle.org) or call 800.895.8842.

**See Safety & Handling Instructions on Page 115**

**ULTRA 8™ T8 SERIES**

- Energy Efficient
- Linear Fluorescent Lamps
- Long Life
- 2-Pin Base - G13
- Universal Burn Position



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Rated Life		Case Qty
			Dia (A)	MOL (mm)	MOL (in)			Preheat (h)		
<b>ULTRA 8™ T8 Preheat 1, 4 (Sold in Case Quantity Only)</b>										
15	3000081‡	F15T8WW	1.0	451	18	3000	800	5000*	6500**	25
15	3000079	F15T8CW	1.0	451	18	4200	875	5000*	6500**	25
15	3000080‡	F15T8D	1.0	451	18	6500	760	5000*	6500**	25

Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Rated Life			Case Qty	
			Dia (A)	MOL (mm)	MOL (in)			IS <sup>2</sup> (h)	RS/PRS <sup>3</sup> (h)			
<b>ULTRA 8™ T8 Tri-phosphor 800 Series 4 — 85 CRI (Sold in Case Quantity Only)</b>												
17	3000231	F17T8/830	1.0	610	24	3000	1400	24000*	30000**	30000*	36000**	25
17	3000260	F17T8/835	1.0	610	24	3500	1400	24000*	30000**	30000*	36000**	25
17	3000261	F17T8/841	1.0	610	24	4100	1400	24000*	30000**	30000*	36000**	25
17	3000262	F17T8/850	1.0	610	24	5000	1350	24000*	30000**	30000*	36000**	25
25	• 3000263	F25T8/830	1.0	915	36	3000	2250	24000*	30000**	30000*	36000**	25
25	• 3000264	F25T8/835	1.0	915	36	3500	2250	24000*	30000**	30000*	36000**	25
25	3000265	F25T8/841	1.0	915	36	4100	2250	24000*	30000**	30000*	36000**	25
25	• 3000266	F25T8/850	1.0	915	36	5000	2150	24000*	30000**	30000*	36000**	25
28	• 3000484	ⓔ F28T8/835	1.0	1219	48	3500	2800	24000*	30000**	40000*	42000**	25
28	• 3000485	ⓔ F28T8/841	1.0	1219	48	4100	2800	24000*	30000**	40000*	42000**	25
28	• 3000656	ⓔ F28T8/850	1.0	1219	48	5000	2725	24000*	30000**	40000*	42000**	25
32	• 3000099	ⓔ F32T8/830	1.0	1219	48	3000	3050	24000*	30000**	40000*	42000**	25
32	• 3000100	ⓔ F32T8/835	1.0	1219	48	3500	3050	24000*	30000**	40000*	42000**	25
32	• 3000101	ⓔ F32T8/841	1.0	1219	48	4100	3050	24000*	30000**	40000*	42000**	25
32	• 3000102	ⓔ F32T8/850	1.0	1219	48	5000	2950	24000*	30000**	40000*	42000**	25
<b>ULTRA 8™ T8 Tri-phosphor 800 Series High Lumen 4 — 85 CRI (Sold in Case Quantity Only)</b>												
32	3000480	ⓔ F32T8/841/HL	1.0	1219	48	4100	3150	24000*	30000**	40000*	42000**	25
32	3000524	ⓔ F32T8/850/HL	1.0	1219	48	5000	3150	24000*	30000**	40000*	42000**	25
<b>ULTRA 8™ T8 Tri-phosphor 900 Series 4 — 95 CRI (Sold in Case Quantity Only)</b>												
32	3000417	ⓔ F32T8/960	1.0	1219	48	6000	2100	18000*	24000**	24000*	30000**	25

ⓔ = This bulb meets US Federal Minimum Efficiency Standard • TCLP Compliant

All dimensions shown in inches unless otherwise noted.

‡ Special Order Item.

\* Based on ANSI / IESNA standards of 3 hours per start

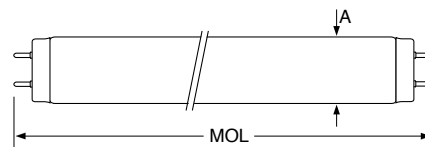
\*\* Based on estimated commercial operating standards of 12 hours per start

<sup>1</sup> These lamps are designed to operate on preheat ballasts.

<sup>2</sup> These life ratings are based on operation on instant start ballasts.

<sup>3</sup> These life ratings are based on operation on rapid start or programmed rapid start ballasts.

<sup>4</sup> When using dimmers, dimming systems, or occupancy sensors, the lamp life will also be affected. The dimming system manufacturer can advise the affect of their system on lamp life.



G13

**See Safety & Handling Instructions on Page 115**

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## T8 FLUORESCENT LAMPS

### ULTRA 8™ T8 XL EXTENDED LIFE SERIES

- Energy Efficient
- Linear Fluorescent Lamps
- Long Life
- 2-Pin Base - G13
- Universal Burn Position



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Rated Life				Case Qty
			Dia (A)	MOL (mm)	MOL (in)			IS <sup>1</sup> (h)	RS/PRS <sup>2</sup> (h)	RS/PRS <sup>2</sup> (h)	RS/PRS <sup>2</sup> (h)	
<b>ULTRA 8™ T8 XL Extended Life Tri-phosphor 800 Series<sup>3</sup> — 85 CRI (Sold in Case Quantity Only)</b>												
32	3000612	Ⓔ F32T8XL/835, 48"	1.0	1219	48	3500	2950	36000*	40000**	55000*	60000**	25
32	3000611	Ⓔ F32T8XL/841, 48"	1.0	1219	48	4100	2950	36000*	40000**	55000*	60000**	25
32	3000610	Ⓔ F32T8XL/850, 48"	1.0	1219	48	5000	2875	36000*	40000**	55000*	60000**	25

Ⓔ = This bulb meets US Federal Minimum Efficiency Standard

All dimensions shown in inches unless otherwise noted.

- \* Based on ANSI / IESNA standards of 3 hours per start
- \*\* Based on estimated commercial operating standards of 12 hours per start

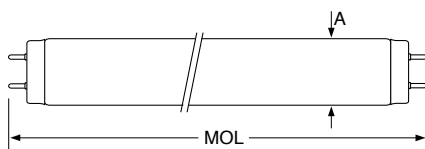
- These life ratings are based on operation on instant start ballasts.
- These life ratings are based on operation on rapid start or programmed rapid start ballasts.
- When using dimmers, dimming systems, or occupancy sensors, the lamp life will also be affected. The dimming system manufacturer can advise the affect of their system on lamp life.

Extended Life F32T8 lamps offer an average rated life up to 60,000 hours<sup>†</sup> without sacrificing efficient light output or high color rendering. These lamps are an excellent solution for applications where frequency of lamp changes and cost of ownership are significant factors. Additionally, they reduce mercury use per lumen-hour, which is an important calculation for LEED Green Building Certification.

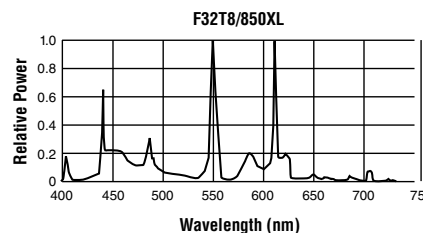
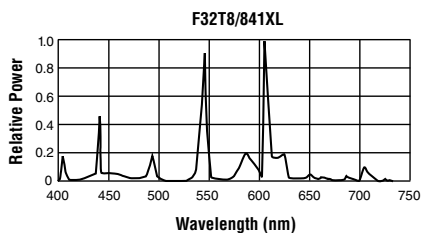
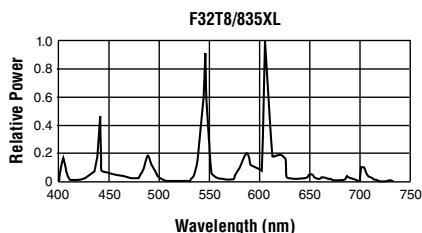
<sup>†</sup> When used on rapid start or programmed rapid start ballasts at 12 hrs per start.



Use of this photo does not imply endorsement of the Ultra 8 T8 XL long life or any other USHIO products.



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**ULTRA 8™ T8 ENERGY SAVING SERIES**

- Energy Efficient
- Linear Fluorescent Lamps
- TCLP Compliant
- Long Life
- 2-Pin Base - G13
- Universal Burn Position



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Rated Life			Case Qty	
			Dia (A)	MOL (mm)	MOL (in)			IS <sup>1</sup> (h)	RS/PRS <sup>2</sup> (h)			
<b>ULTRA 8™ T8 Energy-Saving Tri-phosphor 800 Series<sup>3</sup> — 85 CRI (Sold in Case Quantity Only)</b>												
25	• 3000618	ⓔ F25T8ES/835	1.0	1219	48	3500	2500	24000*	30000**	30000*	36000**	25
25	• 3000619	ⓔ F25T8ES/841	1.0	1219	48	4100	2500	24000*	30000**	30000*	36000**	25
25	• 3000620	ⓔ F25T8ES/850	1.0	1219	48	5000	2450	24000*	30000**	30000*	36000**	25
<b>ULTRA 8™ T8 Energy-Saving Tri-phosphor 800 Series<sup>3</sup> — 85 CRI (Sold in Case Quantity Only)</b>												
28	• 3000621	ⓔ F28T8ES/835	1.0	1219	48	3500	2800	24000*	30000**	30000*	36000**	25
28	• 3000622	ⓔ F28T8ES/841	1.0	1219	48	4100	2800	24000*	30000**	30000*	36000**	25
28	• 3000623	ⓔ F28T8ES/850	1.0	1219	48	5000	2700	24000*	30000**	30000*	36000**	25

ⓔ = This bulb meets US Federal Minimum Efficiency Standard • TCLP Compliant

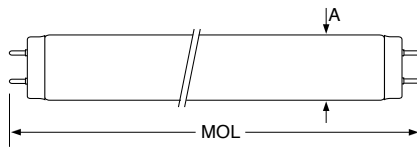
All dimensions shown in inches unless otherwise noted.

- \* Based on ANSI / IESNA standards of 3 hours per start
- \*\* Based on estimated commercial operating standards of 12 hours per start

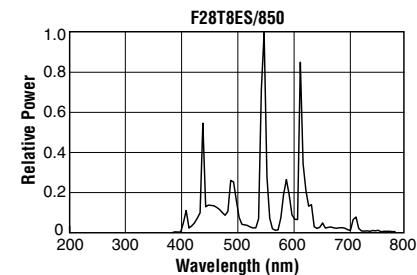
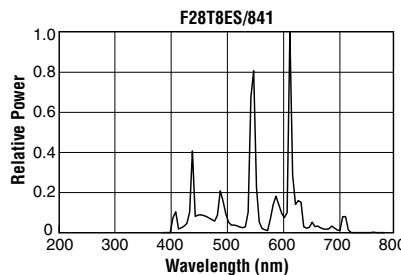
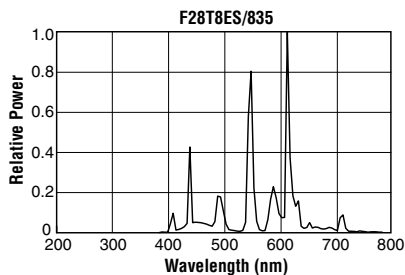
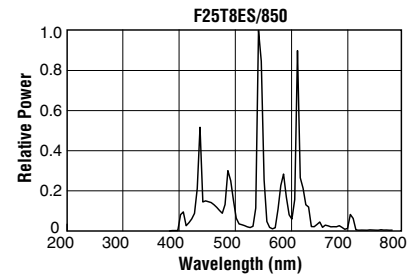
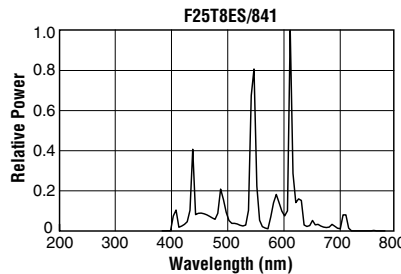
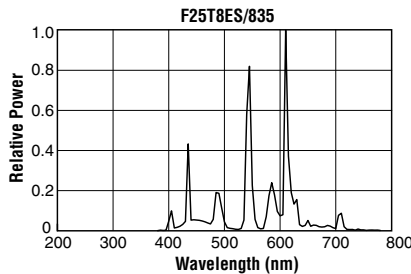
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Use of this photo does not imply endorsement of the energy-saving Ultra 8 T8 or any other USHIO products.



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## T8 U-BEND FLUORESCENT LAMPS

### ULTRA 8™ T8 U-BEND SERIES

- Energy Efficient
- U-Bend Lamps
- Long Life
- 2-Pin Base - G13
- Universal Burn Position
- Cathode Guard to Prevent End Darkening



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Rated Life				Case Qty
			Dia (A)	MOL (mm)	MOL (in)			IS <sup>1</sup> (h)	RS/PRS <sup>2</sup> (h)	24000*	30000**	
<b>ULTRA 8™ T8 U-Bend Energy-Saving Tri-phosphor 800 Series<sup>3</sup> — 85 CRI (Sold in Case Quantity Only)</b>												
28	3000504‡	ⓔ FB28T8/835/6	1.0	584	23	3500	2800	18000*	24000**	24000*	30000**	20
28	3000505	ⓔ FB28T8/841/6	1.0	584	23	4100	2800	18000*	24000**	24000*	30000**	20
<b>ULTRA 8™ T8 U-Bend Tri-phosphor 800 Series<sup>3</sup> — 85 CRI (Sold in Case Quantity Only)</b>												
32	3000276	ⓔ FB32T8/835/6	1.0	584	23	3500	2900	18000*	24000**	24000*	30000**	20
32	3000277	ⓔ FB32T8/841/6	1.0	584	23	4100	2900	18000*	24000**	24000*	30000**	20
32	3000278	ⓔ FB32T8/850/6	1.0	584	23	5000	2850	18000*	24000**	24000*	30000**	20

ⓔ = This bulb meets US Federal Minimum Efficiency Standard

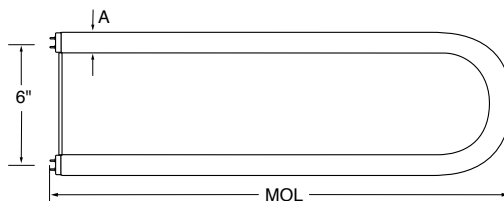
All dimensions shown in inches unless otherwise noted.

\* Based on ANSI / IESNA standards of 3 hours per start

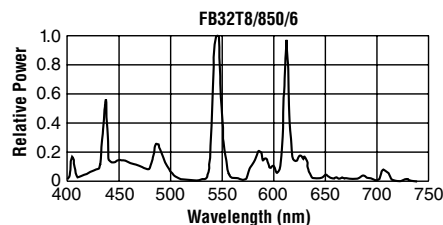
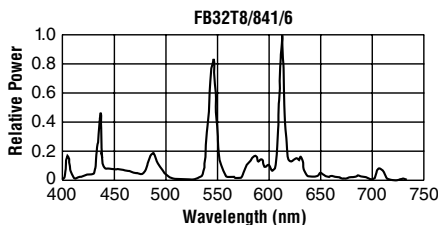
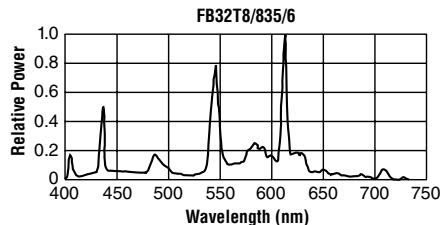
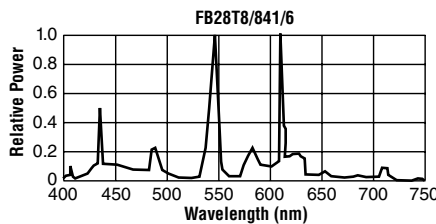
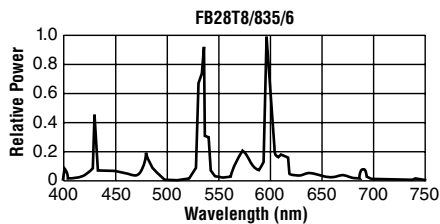
‡ Special Order Item.

\*\* Based on estimated commercial operating standards of 12 hours per start

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**ULTRA 5000™ T10 SERIES**

- Energy Efficient
- Linear Fluorescent Lamps
- Long Life
- 2-Pin Base - G13
- Universal Burn Position
- Cathode Guard to Prevent End Darkening



Watts (W)	Ordering Code	Lamp Description	Dimensions			Color Temp (K)	Initial Lumens (lm)	Avg Rated Life* (h)	Commercial Life** (h)	Case Qty
			Dia (A)	MOL (mm)	MOL (in)					
<b>ULTRA 5000™ T10 Fluorescent 1, 2 — 90 CRI (Sold in Case Quantity Only)</b>										
40	ⓔ 3000282	F40T10/950	1.3	1219	48	5000	3500	20000	30000	25

ⓔ = This bulb meets US Federal Minimum Efficiency Standard

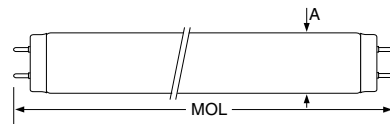
All dimensions shown in inches unless otherwise noted.

\* Based on ANSI / IESNA standards of 3 hours per start

\*\* Based on estimated commercial operating standards of 12 hours per start

<sup>1</sup> These lamps are designed to operate on standard F40T12 magnetic and electronic ballasts.

<sup>2</sup> When using dimmers, dimming systems, or occupancy sensors, the lamp life will also be affected. The dimming system manufacturer can advise the affect of their system on lamp life.



G13

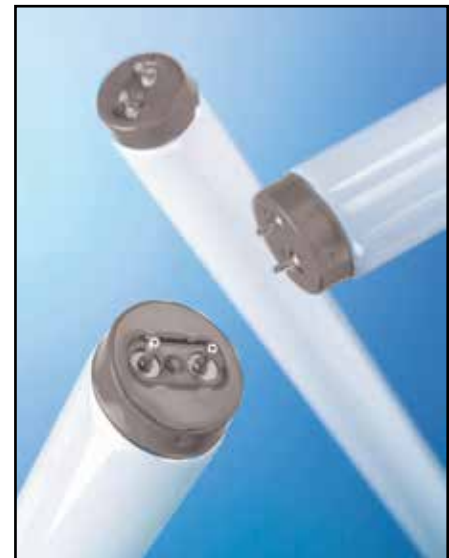
At 40 watts and a high lumen output, Ushio's Ultra 5000™ T10 fluorescent lamps can increase light output up to 15% over T12 lamps, while producing a whiter, more natural daylight color. When used with electronic ballasts, an additional 10%-15% in energy savings may result.

The triphosphor coatings allow for exceptional color rendering at 90 CRI making these lamps ideal for paint stores, retail shops, clothing boutiques, hair salons and graphic arts studios or other environments where color rendering is critical.

The Ultra 5000 T10s are manufactured with a cathode guard which prevents end darkening to insure maximum light output throughout the life of the lamp.

**Features & Benefits:**

- Up to 15% increase in light output over T12 lamps
- Energy savings of 10%-15% when used with an electronic ballast
- Precision engineered cathode guard prevents darkening throughout lamp life
- High Color Rendering — 90 CRI
- Environmental asset — long life prevents the build up of discarded lamps which means less waste
- No ballast change required; lamps are able to work with standard F40T12 magnetic and electronic ballasts



**See Safety & Handling Instructions on Page 115**

**Hg - LAMP CONTAINS MERCURY**

Manage in Accord with Disposal Laws. Visit [www.lamprecycle.org](http://www.lamprecycle.org) or call 800.895.8842.