

## FLUORESCENT LAMPS

### ULTRA 5™ T5 SERIES



### ULTRA 5™ T5 & T5HO FLUORESCENT LAMPS FOR GENERAL LIGHTING

Ushio's Ultra 5™ Fluorescent lamps were designed to provide the greatest lumen package in the shortest possible linear tube. Thus the Ultra 5 series of lamps provides energy efficiency, high color rendition, optical control and improved lumen maintenance in one of the slimmest linear fluorescent lamps on the market today.

**Energy Efficiency**— A system utilizing Ultra 5 lamps can deliver up to 104 LPW, thus outperforming standard T8 systems (90 LPW) and T12 systems (66 LPW).

**High Color Rendition**— All Ultra 5 High Efficiency and High Output lamps utilize tri-phosphor coatings for superior color rendering properties. These lamps have an 85 color rendering index.

**Optical Control**— With a diameter of only  $\frac{5}{8}$  inches, the reduced surface area has allowed luminaire manufacturers to design low profile luminaires with outstanding optical control. In addition, Ultra 5 lamps work exceptionally in high-bay lighting fixtures where these T5 systems are replacing Metal Halide systems. With little or no strike and restrike time, these lamps can be used on dimmers and sensors and make a logical choice for these retrofit opportunities.

**Improved Lumen Maintenance**— Through the use of a proprietary phosphor coating which reduces mercury absorption and a special coiled cathode, the Ultra 5 lamp is able to maintain a more stable lumen output over the life of the lamp. Light output of these lamps actually increases as the operating temperature increases. The light output of the T5 lamps peak at 95° F (35° C) which makes these lamps especially bright when used in higher heat locations and compact luminaires.

Available in—

Preheat: 5W, 6W, 8W, 13W

High Efficiency (standard): 14W, 21W, 28W, 35W

High Output: 24W, 39W, 54W

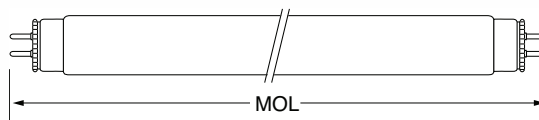
High Output Energy Saving: 49W

## FEATURES & BENEFITS

- Low profile light source— Versatile slim design for better luminaire optics and a wider variety of applications
- Energy efficiency— Up to 104 LPW
- Special phosphor coating and coiled cathodes— Improves lumen stability over the life of the lamp
- High Color Rendering— High Efficiency and High Output T5 lamps have an 85 CRI
- High operating temperature— Lumens increase at hotter ambient temperatures
- Instant start and restrike capability— Ideal for use on dimming circuits and occupancy sensors
- Environmental asset— Long life prevents the build up of discarded lamps which means less waste

# CHARACTERISTICS & SPECIFICATIONS

## ULTRA 5™ T5 Bi-Pin G5 Base Universal Burn Position



Watts (W)	Ushio Ordering Code	Ushio Lamp Description	Dimensions		Color Temp (K)	Initial Lumens (lm)	Average Rated Life* (h)	Commercial Life** (h)	Case Qty
			MOL (mm)	MOL (in)					
<b>Ultra 5™ Preheat 1,4</b>									
4	3000109	F4T5WW/6"	150	6	3000	110	6000	7500	100
4	3000107	F4T5CW/6"	150	6	4200	140	6000	7500	100
4	3000108	F4T5D/6"	150	6	6500	95	6000	7500	100
6	3000114	F6T5WW/9"	226	9	3000	240	7500	9300	100
6	3000112	F6T5CW/9"	226	9	4200	280	7500	9300	100
6	3000113	F6T5D/9"	226	9	6500	210	7500	9300	100
8	3000119	F8T5WW/12"	302	12	3000	400	7500	9300	100
8	3000117	F8T5CW/12"	302	12	4200	400	7500	9300	100
8	3000118	F8T5D/12"	302	12	6500	350	7500	9300	100
13	3000070	F13T5WW/21"	531	21	3000	820	7500	9300	25
13	3000068	F13T5CW/21"	531	21	4200	820	7500	9300	25
13	3000069	F13T5D/21"	531	21	6500	700	7500	9300	25
<b>Ultra 5™ High Efficiency (standard) 2, 4 — 85 CRI</b>									
14	3000377	F14T5/830/22"	563	22	3000	1350	35000	40000	25
14	3000459	F14T5/835/22"	563	22	3500	1350	35000	40000	25
14	3000378	F14T5/841/22"	563	22	4100	1350	35000	40000	25
21	3000380	F21T5/830/34"	863	34	3000	2100	35000	40000	25
21	3000460	F21T5/835/34"	863	34	3500	2100	35000	40000	25
21	3000381	F21T5/841/34"	863	34	4100	2100	35000	40000	25
28	• 3000383	ⓔ F28T5/830/46"	1163	46	3000	2900	35000	40000	25
28	• 3000462	ⓔ F28T5/835/46"	1163	46	3500	2900	35000	40000	25
28	3000384	ⓔ F28T5/841/46"	1163	46	4100	2900	35000	40000	25
28	3000385	ⓔ F28T5/850/46"	1163	46	5000	2700	35000	40000	25
35	3000386	F35T5/830/58"	1463	58	3000	3650	35000	40000	25
35	3000463	F35T5/835/58"	1463	58	3500	3650	35000	40000	25
35	3000387	F35T5/841/58"	1463	58	4100	3650	35000	40000	25
<b>Ultra 5™ High Output 2, 4 — 85 CRI</b>									
24	3000389	F24T5HO/830/22"	563	22	3000	2000	35000	40000	25
24	3000461	F24T5HO/835/22"	563	22	3500	2000	35000	40000	25
24	3000390	F24T5HO/841/22"	563	22	4100	2000	35000	40000	25
39	3000392	F39T5HO/830/34"	863	34	3000	3500	35000	40000	25
39	3000464	F39T5HO/835/34"	863	34	3500	3500	35000	40000	25
39	3000393	F39T5HO/841/34"	863	34	4100	3500	35000	40000	25
54	• 3000395	ⓔ F54T5HO/830/46"	1163	46	3000	5000	35000	40000	25
54	• 3000458	ⓔ F54T5HO/835/46"	1163	46	3500	5000	35000	40000	25
54	• 3000396	ⓔ F54T5HO/841/46"	1163	46	4100	5000	35000	40000	25
54	• 3000397	ⓔ F54T5HO/850/46"	1163	46	5000	4550	35000	40000	25
<b>Ultra 5™ High Output Energy Saving 3,4 — 85 CRI</b>									
49	• 3000624	ⓔ F49T5HO-ES/835/46"	1163	46	3500	4900	24000	30000	25
49	• 3000625	ⓔ F49T5HO-ES/841/46"	1163	46	4100	4900	24000	30000	25
49	• 3000626	ⓔ F49T5HO-ES/850/46"	1163	46	5000	4900	24000	30000	25

ⓔ = This bulb meets US Federal Minimum Efficiency Standard

• TCLP Compliant

<sup>1</sup> These lamps are designed to operate on preheat ballasts. <sup>2</sup> These lamps are designed to operate on rapid start ballasts and the life ratings listed reflect this fact. <sup>3</sup> These lamps are designed for use on programmed rapid start ballasts and life ratings reflect this. <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.

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

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

Sold in Case Quantity only

- LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-895-8842