

# USHIO

## FLUORESCENT LAMPS

### ULTRA 5™ 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 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.

## 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

Available in—

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

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

High Output: 24W, 39W, 54W

Distributed by:

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## 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 1,3</b>									
4	3000109	F4T5WW	150	5.9	3000	110	6000	7500	100
4	3000107	F4T5CW	150	5.9	4200	140	6000	7500	100
4	3000108	F4T5D	150	5.9	6500	95	6000	7500	100
6	3000114	F6T5WW	226	8.9	3000	240	7500	9300	100
6	3000112	F6T5CW	226	8.9	4200	280	7500	9300	100
6	3000113	F6T5D	226	8.9	6500	210	7500	9300	100
8	3000119	F8T5WW	302	11.9	3000	400	7500	9300	100
8	3000117	F8T5CW	302	11.9	4200	400	7500	9300	100
8	3000118	F8T5D	302	11.9	6500	350	7500	9300	100
13	3000070	F13T5WW	531	20.9	3000	820	7500	9300	25
13	3000068	F13T5CW	531	20.9	4200	820	7500	9300	25
13	3000069	F13T5D	531	20.9	6500	700	7500	9300	25
<b>Ultra 5™ High Efficiency (standard) 2,3— 85 CRI</b>									
14	3000377	F14T5/830	563	22.2	3000	1350	24000	30000	25
14	3000459	F14T5/835	563	22.2	3500	1350	24000	30000	25
14	3000378	F14T5/841	563	22.2	4100	1350	24000	30000	25
21	3000380	F21T5/830	863	34.0	3000	2100	24000	30000	25
21	3000460	F21T5/835	863	34.0	3500	2100	24000	30000	25
21	3000381	F21T5/841	863	34.0	4100	2100	24000	30000	25
28	3000383	F28T5/830	1163	45.8	3000	2900	24000	30000	25
28	3000462	F28T5/835	1163	45.8	3500	2900	24000	30000	25
28	3000384	F28T5/841	1163	45.8	4100	2900	24000	30000	25
28	3000385	F28T5/850	1163	45.8	5000	2700	24000	30000	25
35	3000386	F35T5/830	1463	57.6	3000	3650	24000	30000	25
35	3000463	F35T5/835	1463	57.6	3500	3650	24000	30000	25
35	3000387	F35T5/841	1463	57.6	4100	3650	24000	30000	25
<b>Ultra 5™ High Output 2,3— 85 CRI</b>									
24	3000389	F24T5HO/830	563	22.2	3000	2000	24000	30000	25
24	3000461	F24T5HO/835	563	22.2	3500	2000	24000	30000	25
24	3000390	F24T5HO/841	563	22.2	4100	2000	24000	30000	25
39	3000392	F39T5HO/830	863	34.0	3000	3500	24000	30000	25
39	3000464	F39T5HO/835	863	34.0	3500	3500	24000	30000	25
39	3000393	F39T5HO/841	863	34.0	4100	3500	24000	30000	25
54	3000395	F54T5HO/830	1163	45.8	3000	5000	24000	30000	25
54	3000458	F54T5HO/835	1163	45.8	3500	5000	24000	30000	25
54	3000396	F54T5HO/841	1163	45.8	4100	5000	24000	30000	25
54	3000397	F54T5HO/850	1163	45.8	5000	4550	24000	30000	25

<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> 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](http://www.lamprecycle.org) or 1-800-895-8842

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The specifications on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.



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