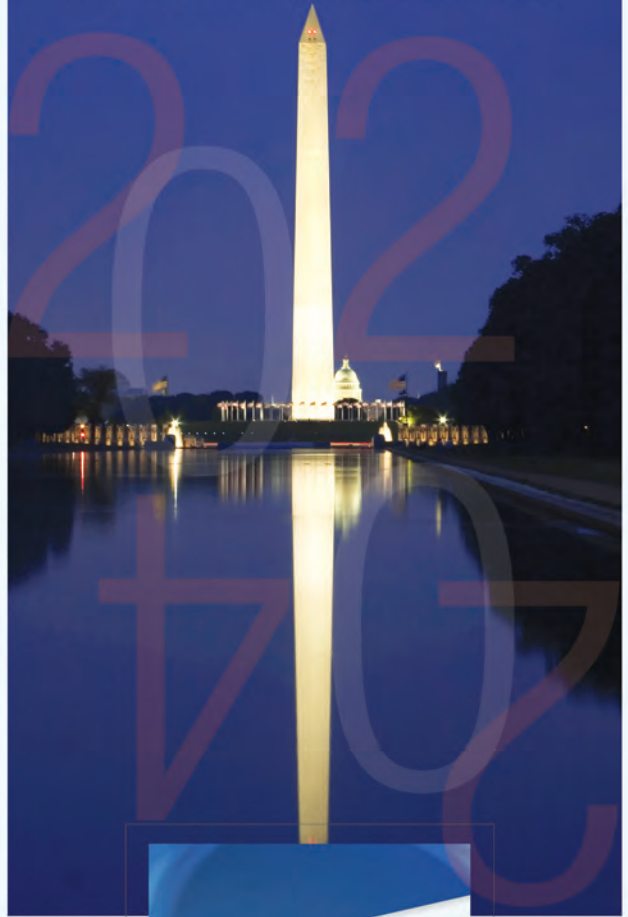


Fluorescent Replacement Guide



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DOE2012REV2 (8/13)


Certain photography




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In 2009 the United States Department of Energy issued regulations that set minimum efficacy (lumens per watt) standards for certain linear and U-bend general service fluorescent lamps. The new standards are effective on July 14, 2012, and will result in the elimination of the least efficient 4' T12, 2' T12 U-bend, and 8' T12 slimline and HO lamps. The 700 Series T8 lamps would also have been eliminated at this same time, but due to rare earth supply issues, the DOE has allowed OSRAM SYLVANIA to delay the effective date for these lamps until July 14, 2014. To help

lighting users with their selection process, SYLVANIA has developed this replacement guide. The guide lists lamps which do not meet the minimum efficacy requirements and will therefore be eliminated. The guide also provides product replacements which satisfy the minimum requirements of the energy legislation and gives recommended, high efficiency alternatives which save energy, provide longer life and greater value.

For product availability and specific recommendations contact your SYLVANIA sales professional.

Lamp Type Eliminated In 2012/ Eliminated in 2014 Item Number	Minimum Replacement Item Number	Upgrade Item Number GOOD	Upgrade Item Number BETTER	Upgrade Item Number BEST
 <p>F032 4' T8 Lamps</p>		<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 43% Longer Life • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 12.5% Energy Savings • Up to 43% Longer Life • No Ballast change req'd
	F032/730/ECO 30/CS 1/SKU 21997	F032/830/ECO 21777	F032/830/XP/ECO3 21759	FO28/830/XP/SS/ECO3 22177
	F032/730/XP/ECO 21711			
	F032/735/ECO/PALLET 1776/CS 1/SKU 21545	F032/835/ECO 21779	F032/835/XP/ECO3 21763	FO28/835/XP/SS/ECO3 22178
	F032/735/ECO 30/CS 1/SKU 21998		or	or
	F032/735/ECO/CVP 12/CS 12/SKU 22182		FO32/835/XV/ECO 20066	FO28/835/XV/SS/ECO 21420
	F032/735/ECO/RP 30/CS 30/SKU 22266			
	F032/735/XP/ECO 22044			
	F032/735/XP/ECO 22024			
	F032/741/ECO/UPC 30/CS 1/SKU 21524	F032/841/ECO 21781	F032/841/XP/ECO3 21767	FO28/841/XP/SS/ECO3 22179
F032/741/ECO 30/CS 1/SKU 21999		or	or	
F032/741/ECO/CVP 12/CS 12/SKU 22181		FO32/841/XV/ECO 20067	FO28/841/XV/SS/ECO 21421	
F032/741/ECO/230 30/CS 2/SKU 22186				
F032/741/ECO/RP 30/CS 30/SKU 22265				
F032/741/ECO/PALLET 1776/CS 1/SKU 22317				
F032/741/XP/ECO 21712				
F032/750/ECO 30/CS 1/SKU 22141	F032/850/ECO 22143	F032/850/XP/ECO 22026	FO28/850/XP/SS/ECO3 22326	
		or	or	
		FO32/850/XV/ECO 20068	FO28/850/XV/SS/ECO 21422	
F032/765/ECO 30/CS 1/SKU 22175		FO32/865/XP/ECO 21720		
F032/765/ECO/CVP 12/CS 12/SKU 22210				

		GOOD	BETTER	BEST
	F096 Single Pin 8' T8 Lamps		<ul style="list-style-type: none"> • Up to 60% Longer Life • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 7% Energy Savings • Up to 60% Longer Life • No Ballast change req'd
F096/730/ECO 24/CS 1/SKU 22030	F096/830/ECO 22147	F096/830/XP/ECO 22036	F096/835/XP/ECO 22034	F096/54W/835/XP/SS/ECO3 22100
F096/735/ECO 24/CS 1/SKU 21737	F096/835/ECO 22148			F096/54W/835/XP/SS/ECO3 22100 or F096/54W/835/XV/SS/ECO 21423
F096/741/ECO/218 18/CS 2/SKU 21592	F096/841/ECO 22149	F096/841/XP/ECO 22032		F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424
F096/741/ECO 24/CS 1/SKU 21736				
F096/741/ECO 18/CS 2/SKU 28987				
	F96T8 Single Pin 8' T8 Lamps	<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • Up to 400% Longer Life • Ballast change req'd 	<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • Up to 480% Longer Life • Ballast change req'd 	<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • Up to 480% Longer Life • Ballast change req'd
F96T8/D/ 24/CS 1/SKU 29650		F096/850/ECO 22173	F096/850/XP/ECO 22174	F096/54W/850/XP/SS/ECO3 22347
F96T8/CW 24/CS 1/SKU 29666		F096/841/ECO 22149	F096/841/XP/ECO 22032	F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424
		<ul style="list-style-type: none"> • Up to 20% Longer Life • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 7% Energy Savings • Up to 60% Energy Savings • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 7% Energy Savings • Up to 60% Energy Savings • No Ballast change req'd
F96T8WECO 24/CS 1/SKU 21418	F096/835/ECO 22148	F096/835/XP/ECO 22034	F096/54W/835/XV/SS/ECO3 21423	F096/54W/835/XP/SS/ECO3 22100
F96T8CWECO 24/CS 1/SKU 21419	F096/841/ECO 22149	F096/841/XP/ECO 22032	F096/54W/841/XV/SS/ECO3 21424	F096/54W/841/XP/SS/ECO3 22101
	F34T12 4' T12 Lamps	<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • No Ballast change req'd 	<ul style="list-style-type: none"> • Up to 40% Energy Savings • Up to 45% Longer Life • Ballast change req'd 	<ul style="list-style-type: none"> • Up to 40% Energy Savings • Up to 100% Longer Life • Ballast change req'd
F34/D30/SS/ECO 30/CS 1/SKU 24535	F40/WX 30/CS 1/SKU 23505	F34T12/941/SS/ECO 22425	F028/830/XP/SS/ECO3 22177 or F028/830/XV/SS/ECO 21429	F028/835/XP/XL/SS/ECO3 22166
F34/WW/SS/ECO 30/CS 1/SKU 24538				
F34/D830/SS/ECO 30/CS 1/SKU 24544				
F34/D35/SS/ECO 30/CS 1/SKU 24540			F028/835/XP/SS/ECO3 22178	
F34/D835/SS/ECO 30/CS 1/SKU 24547			or F028/835/XV/SS/ECO 21420	
F34/D35/SS 30/CS 1/SKU 24585				
F34/W/SS 30/CS 1/SKU 24591				

F34T12 4' T12 Lamps (continued on next page)

Lamp Type Eliminated in 2012/Eliminated in 2014 Item Number	Minimum Replacement Item Number	Upgrade Item Number	Upgrade Item Number	Upgrade Item Number
		GOOD	BETTER	BEST
F34T12 4' T12 Lamps (continued)				
F34/CW/SS/ECO/RP 30/CS 30/SKU 24394	F34/CWX/SS/RP 30/CS 30/SKU 22459	F34T12/941/SS/ECO 22425	F028/841/XP/SS/ECO3 22179	F028/841/XP/XL/SS/ECO3 22167
F34/D41/SS/ECO 30/CS 1/SKU 24542	F34/CWX/SS 24588		or F028/841/XV/SS/ECO 21421	
F34/DB41/SS/ECO 30/CS 1/SKU 24554				
F34/LW/SS/ECO 30/CS 1/SKU 24566				
F34/LW/SS 30/CS 1/SKU 24590				
F34/CW/SS/ECO 30/CS 1/SKU 24596				
F34/CW/SS/ECO/CVP 10/CS 10/SKU 24632	F34/CWX/SS/CVP 10/CS 10/SKU 22460			
F34/CW/SS/ECO/UPC 30/CS 1/SKU 24634	F34/CWX/SS/UPC 30/CS 1/SKU 23501			
F34/CW/SS/ECO/CP 30/CS 1/SKU 24786				
F34/CW/SS/ECO/RP 30/CS 2/SKU 24633	F34/CWX/SS/RP 30/CS 2/SKU 22462	F40/T12/941/ECO 30/CS 2/SKU 22435		
F34/D865/SS 30/CS 1/SKU 24706	F34/DX/SS 24599	F34T12/941/SS/ECO 22425	F032/865/XP/ECO 21720**	F032/865/XPS/ECO 21659♦
 F40T12 4' T12 Lamps		† Up to 15% Energy Savings • Improved Color Quality • No Ballast change req'd	• Up to 45% Energy Savings • Up to 45% Longer Life • Ballast change req'd ** Up to 40% Energy Savings	• Up to 45% Energy Savings • Up to 100% Longer Life • Ballast change req'd
F40/D30/ECO 30/CS 1/SKU 24521†	F40/WX 30/CS 1/SKU 23505	F34T12/941/SS/ECO 22425	F032/830/XP/ECO3 21759	F032/835/XP/XL/ECO3 21576
F40/D830/ECO 30/CS 1/SKU 24543†			F032/835/XP/ECO3 21763	
F40/N/30/CS 1/SKU 24438†			or F032/835/XV/ECO 20066	
F40/D35/ECO 30/CS 1/SKU 24537				
F40/D835/ECO 30/CS 1/SKU 24546†				
F40/DWWP/230 30/CS 2/SKU 24644		F40T12/930/ECO 2/SKU 21376	F032/830/XP/ECO3 21759	
F40/WWP/230 30/CS 2/SKU 24754				
F40/WW/SS/ECO/CP 30/CS 1/SKU 24785†			F028/830/XP/SS/ECO3 22177**	
F40/CWP/CVP 10/CS 10/SKU 24400†	F40/CWX/CVP 10/CS 10/SKU 22461	F34T12/941/SS/ECO 22425	F032/841/XP/ECO3 21767	F032/841/XP/XL/ECO3 21577
F40/D41/ECO 30/CS 1/SKU 24541†	F40/CWX 24441		or F032/841/XV/ECO 20067	
F40/D841/ECO 30/CS 1/SKU 24553†				
F40/D41/30/CS 1/SKU 24584†				
F40/CWP/UPC/130 30/CS 1/SKU 24611	F40/CWX UPC 30/CS 1/SKU 24472			
F40/CWP/230 30/CS 2/SKU 24406	F40/CWX 30/CS 2/SKU 21371	F40T12/941/ECO 30/CS 2/SKU 22435		
F40/DCWP/230 30/CS 2/SKU 24744†				

Lamp Type Eliminated in 2012/**Eliminated in 2014**
Item Number

Minimum Replacement
Item Number

Upgrade
Item Number

Upgrade
Item Number

Upgrade
Item Number

GOOD

BETTER

BEST

F40T12 4' T12 Lamps (continued)

F40/D865/30/CS 1/SKU

F40/DX

F34/941/ECO

FO32/865/XP/ECO

FO32/865/XPS/ECO

24570

24477

22425

21720

21659

F40/DAYLIGHT/6500K/16 6/CS 1/SKU

F40/DX 6/CS

24774

21377



**F32T8
4' T8 Lamps**

- Improved Color Quality
- Higher Light Output
- No Ballast change req'd

- ** Up to 12.5% Energy Savings
- Up to 43% Longer Life
- No Ballast change req'd

- Up to 12.5% Energy Savings
- Up to 43% Longer Life
- **Ballast change req'd**

F32T8WWECO 30/CS 1/SKU

FO32/730/XP/ECO

FO32/830/ECO

FO28/830/XV/SS/ECO

FO28/830/XP/SS/ECO3

21346

21711

21777

21429**

22177

F32T8/735/ECONOMY/ECO 36/CS 1/SKU

FO32/735/XP/ECO

FO32/835/ECO

FO32/835/XP/ECO3

FO28/835/XP/SS/ECO3

21597

22044

21779

21763

22178

or

FO32/835/XV/ECO

or

FO28/835/XV/SS/ECO

20066**

21420

F32T8WECO 30/CS 1/SKU

FO32/741/XP/ECO

FO32/841/ECO

FO28/835/XP/SS/ECO3

FO28/835/XP/SS/ECO3

21347

21712

21781

21767

22178

F32T8/741/ECONOMY/ECO 36/CS 1/SKU

FO32/741/XP/ECO

FO32/841/ECO

FO32/841/XP/ECO3

FO28/841/XP/SS/ECO3

21618

21712

21781

21767

22179

or

FO32/841/XV/ECO

or

FO28/841/XV/SS/ECO

20067**

21421

F32T8CWECO 30/CS 1/SKU

FO32/741/XP/ECO

FO32/841/ECO

FO28/841/XP/SS/ECO3

FO28/841/XP/SS/ECO3

21348

21712

21781

21421**

22179



F25T12

- Improved Color Quality
- No Ballast change req'd

- Up to 45% Energy Savings
- Up to 45% Longer Life
- **Ballast change req'd**

- Up to 45% Energy Savings
- Up to 50% Longer Life
- **Ballast change req'd**

F25T12/CW/UPC/30PK 30/CS 1/SKU

F34/CWX/SS/UPC 30/CS 1/SKU

F34T12/941/SS/ECO

FO32/841/XP/ECO3

FO28/841/XP/SS/ECO3

24492

23501

22425

21767

22179

or

FO32/841/XV/ECO

or

FO28/841/XV/SS/ECO

20067

21421



**F96T12 HO
High Output (800mA)
8' Lamps**

- Up to 33% Energy Savings
- Up to 43% Longer Life
- **Ballast change req'd**
- ◆ Up to 20% Energy Savings

F96T12/WW/HO/SS 15/CS 1/SKU

F96T12/941/HO/SS/ECO

FO96/835/HO/ECO

25011◆

25037

22206

F96T12/D30/HO 15/CS 1/SKU

25149

F96T12/D830/HO 15/CS 1/SKU

25152

F96T12/D35/HO/SS 15/CS 1/SKU

25024


F96T12/D35/HO 15/CS 1/SKU

25165

F96T12/D835/HO 15/CS 1/SKU

25166

F96T12 HO 8' T12 Lamps (continued on next page)

Lamp Type Eliminated in 2012/Eliminated in 2014 Item Number	Minimum Replacement Item Number	Upgrade Item Number	Upgrade Item Number	Upgrade Item Number
		GOOD	BETTER	BEST
F96T12 HO 8' T12 Lamps (continued)				
F96T12/LW/HO/SS 15/CS 1/SKU 25025 ♦	F96T12/941/HO/SS/ECO 25037		F096/841/HO/ECO 22207	
F96T12/CW/HO/SS/ECO 126V 15/CS 1/SKU 25001 ♦				
F96T12/CW/HO/SS 15/CS 1/SKU 25010 ♦				
F96T12D41HO 15/CS 1/SKU 25184				
F96T12/D841/HO 152V 15/CS 1/SKU 25155				
F96T12/D865/HO 15/CS 1/SKU 25185				
	F96T12 Instant Start 8' Slimline Lamps	<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • No Ballast change req'd ♦ Up to 20% Energy Savings 	<ul style="list-style-type: none"> • Up to 33% Energy Savings • Up to 100% Longer Life • Ballast change req'd ** Up to 30% Energy Savings 	<ul style="list-style-type: none"> • Up to 38% Energy Savings • Up to 100% Longer Life • Ballast change req'd
F96T12/CW/SS15/CVP 15/CS 15/SKU 27401**	F96T12/CWX/SS/RP 15/CS 15/SKU 28924	F96T12/941/SS/ECO 26322	F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424	F096/50W/841/XP/SS/ECO3 22421 or F096/50W/841/XV/SS/ECO 21425
F96T12/CW/SS/ECO/RP 15/CS 15/SKU 29517**				
F96T12/CW/SS/CP 15/CS 1/SKU 28015**	F96T12/CWX/SS/UPC 15/CS 1/SKU 23503			
F96T12/CW/SS 15/CS 1/SKU 29815**				
F96T12/CW/SS/ECO/UPC 15/CS 1/SKU 29512**				
F96T12/CW/SS/UPC 15/CS 1/SKU 29816**				
F96T12/CW/SS/ECO 15/CS 1/SKU 29505**	F96T12/CWX 29478			
F96T12/LW/SS 15/CS 1/SKU 29820**				
F96T12/D41/SS/ECO 15/CS 1/SKU 29853 ♦ **			(50% Energy Savings)	
F96T12/D841/ECO 15/CS 1/SKU 29850 ♦			F096/841/XP/ECO 22032	F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424
F96T12/D41/ECO 15/CS 1/SKU 29798 ♦				
F96T12/D41/UPC 15/CS 1/SKU 29852 ♦	F96T12/CWX/UPC 29489			
F96T12/D30/SS/ECO 15/CS 1/SKU 29809**	F96T12/WX 15/CS 1/SKU 23504		F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424	F096/50W/841/XP/SS/ECO3 22421 or F096/50W/841/XV/SS/ECO 21425
F96T12/D30/ECO 15/CS 1/SKU 29796 ♦			F096/830/XP/ECO 22036	F096/54W/835/XP/SS/ECO3 22100
F96T12/WW/SS/ECO 15/CS 1/SKU 29795**				

F96T12 Instant Start 8' Slimline Lamps (continued on next page)

		GOOD	BETTER	BEST
F96T12 Instant Start 8' Slimline Lamps (continued)				
F96T12/D35/SS/ECO 15/CS 1/SKU 29808	F96T12/WX 15/CS 1/SKU 23504	F96T12/941/SS/ECO 26322	F096/54W/835/XP/SS/ECO3 22100 or F096/54W/835/XV/SS/ECO 21423	F096/50W/835/XP/SS/ECO3 22420 or F096/50W/835/XV/SS/ECO 21426
F96T12/D35/SS 15/CS 1/SKU 29819			F096/835/XP/ECO 22034	F096/54W/835/XP/SS/ECO3 22100 or F096/54W/835/XV/SS/ECO 21423
F96T12/D835/ECO 15/CS 1/SKU 29838 ♦				
F96T12/D835 15/CS 1/SKU 29843 ♦				
F96T12/D35/ 15/CS 1/SKU 29685 ♦				
F96T12/D35/ECO 15/CS 1/SKU 29686 ♦				
F96T12D865 15/CS 1/SKU 29849	F96T12/DX 29500			
F96T12/D865/SS 15/CS 1/SKU 29851				
F96T12/D35/ECO/212 12/CS 2/SKU 28981	F96T12/WX 12/CS 2/SKU 28926	F96T12/935/ECO 12/CS 2/SKU 28936	F096/835/XP/ECO 22034	F096/54W/835/XP/SS/ECO3 22100 or F096/54W/835/XV/SS/ECO 21423
F96T12/CW/SS/CVP 10/CS 10/SKU 29805	F96T12/CWX/SS/CVP 10/CS 10/SKU 23502	F96T12/941/ECO CVP 10/CS 28939	F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424	F096/50W/841/XP/SS/ECO3 22421 or F096/50W/841/XV/SS/ECO 21425
F96T12CWSSECO212 12/CS 2/SKU 28985	F96T12/CWX/SS 12/CS 2/SKU 28925			
F96T12/CW/SS/ECO 12/CS 2/SKU 29893		F96T12/935/ECO 12/CS 2/SKU 29836		
F96T12/D35/ECO/CVP 10/CS 10/SKU 29688	F96T12/CWX/CVP 29858	F96T12/941/ECO CVP 10/CS 28939	F096/835/XP/ECO 22034	F096/54W/835/XP/SS/ECO3 22100 or F096/54W/835/XV/SS/ECO 21423
F96T12/D41/CVP 10/CS 10/SKU 29797		F96T12/935/ECO 12/CS 2/SKU 29836	F096/841/XP/ECO 22032	F096/54W/841/XP/SS/ECO3 22101 or F096/54W/841/XV/SS/ECO 21424

		GOOD			BETTER			BEST		
 <p>FB34T12 <i>(Curvalume, U-Shaped, 6" leg spacing)</i></p>		<ul style="list-style-type: none"> • Improved Color Quality • Higher Light Output • No Ballast change req'd 			<ul style="list-style-type: none"> • Up to 33% Energy Savings • Up to 60% Longer Life • Ballast change req'd 			<ul style="list-style-type: none"> • Up to 36% Energy Savings • Up to 60% Longer Life • Ballast change req'd 		
FB34/WWW/6/SS/ECO 12/CS 1/SKU 24052	FB40/CWX/6 24004	FB34/T12/930/6/SS/ECO 24965	FBO30/830/XP/6/SS/ECO 22170	FBO28/835/XP/6/SS/ECO 22304	FB34/D35/6/SS 12/CS 1/SKU 24065	FBO30/835/XP/6/SS/ECO 22171	FBO28/841/XP/6/SS/ECO 22305	FB34/CW/6/SS/ECO 12/CS 1/SKU 24054	FB028/841/XP/6/SS/ECO 22305	
FB34/CW/6/SS/UPC 12/CS 1/SKU 24059	FB40/CWX/6/UPC 24069	FB34T12/941/6/SS/ ECO/UPC 24308	FBO30/841/XP/6/SS/ECO 22172	FB34T12/930/6/SS/ECO 24965	FBO30/830/XP/6/SS/ECO 22170	FBO28/835/XP/6/SS/ECO 22304	FB34/WWW/6/SS/UPC 12/CS 1/SKU 24062	FBO28/835/XP/6/SS/ECO 22304		
 <p>FB40T12 <i>(Curvalume, U-Shaped, 6" leg spacing)</i></p>		<ul style="list-style-type: none"> • Improved Color Quality • Up to 15% Energy Savings • No Ballast change req'd 			<ul style="list-style-type: none"> • Up to 30% Energy Savings • Up to 55% Longer Life • Ballast change req'd 			<ul style="list-style-type: none"> • Up to 33% Energy Savings • Up to 60% Longer Life • Ballast change req'd 		
FB40/D830/6 12/CS 1/SKU 24017	FB40/CWX/6 24004	FB34T12/930/6/SS/ECO 24965	FBO32/830/6/ECO 21663	FBO30/830/XP/6/SS/ECO 22170	FB40/D30/6/ 12/CS 1/SKU 24080	FBO32/835/6/ECO 21670	FBO30/835/XP/6/SS/ECO 22171	FB40/D35/6/ 12/CS 1/SKU 24081	FBO30/841/XP/6/SS/ECO 22172	
FB40/D41/6 /12/CS 1/SKU 24082		FB34T12/941/SS/ ECO/UPC 24308	FBO32/841/6/ECO 21671							

Consult your SYLVANIA sales professional for recommended ballast replacement.
For more information on Federal Lamp Legislation visit: www.sylvania.com -
Sustainability - Regulations and Legislation