

Table 1. Fluorescent lamps that will be discontinued and generic replacements of type rapid-start 1200 mm (48 inch), straight-shaped, medium bin-pin base.

Non-complying Lamps	Replacements Requiring Lamp and Ballast Change	Replacements Requiring Only Lamp Change	
	Most Efficient Option: Reduced Power per Fixture and Higher Lamp Efficacy	Medium Efficiency Option: Reduced Power per Fixture and Higher Lamp Efficacy (see Note 2)	Least Efficient Option: Same Power per Fixture; Higher Lamp Efficacy
F40T12/CW (40W, 62CRI)	F32T8 (32W, 4100K, 82CRI) F32T8 (32W, 4100K, 75CRI)	F40T12/ES (34W, 4100K, 80CRI) F40T12/ES (34W, 4100K, 70CRI) F40T12/CW/ES (34W, 62CRI)	F40T12 (40W, 4100K, 80CRI) F40T12 (40W, 4100K, 70CRI)
F40T12/W (40W, 60CRI)	F32T8 (32W, 3500K, 82CRI) F32T8 (32W, 3500K, 75CRI)	F40T12/ES (34W, 3500K, 80CRI) F40T12/ES (34W, 3500K, 70CRI) F40T12/W/ES (34W, 60CRI)	F40T12 (40W, 3500K, 80CRI) F40T12 (40W, 3500K, 70CRI)
F40T12/WW (40W, 52CRI) F40T12/WWX (40W, 77CRI) F40T12/WWX/ES (34W, 77CRI)	F32T8 (32W, 3000K, 82CRI) F32T8 (32W, 3000K, 75CRI)	F40T12/ES (34W, 3000K, 80CRI) F40T12/ES (34W, 3000K, 70CRI) F40T12/WW/ES (34W, 52CRI)	F40T12 (40W, 3000K, 80CRI) F40T12 (40W, 3000K, 70CRI)
F40T12/D (40W, 75CRI) F40T12/D/ES (34W, 75CRI)	F32T8 (32W, 5000K, 85CRI) F32T8 (32W, 5000K, 75CRI)	F40T12/ES (34W, 6500K, 80CRI)	F40T12 (40W, 6500K, 80CRI)

Notes:

- 1) Specific substitutions should be made in accordance with application specific requirements such as colour rendering and low temperatures.
- 2) Full wattage lamps may be required for ambient temperatures below 16 °C and ballasts that are of either the dimming, cold temperature, or low power factor types; check with vendor.
- 3) Values given for wattage (W), colour temperature (K), colour rendering index (CRI), and dimensions are nominal or approximate; contact vendor for specific model specifications.
- 4) Some lamp types may not be available from all manufacturers and suppliers; consult sales representatives for specific details.
- 5) Efficacy is the light output of a lamp per watt of electricity input.
- 6) /CW denotes cool white (4100K). /D denotes daylight (6500K). /W denotes white (3500K). /WW denotes warm white (3000K). /WWX denotes warm white deluxe (3000K).
- 7) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations. These draw about 34 watts. Some 32 watt versions exist.

- 8) T12 lamps have diameter of 12/8 in. versus 8/8 in. for T8 lamps.

Table 2. Fluorescent lamps that will be discontinued and generic replacements of type rapid-start 2400 mm (96 inch), straight-shaped, recessed double-contact base, high output (0.800 ampere)

Non-complying Lamps	Replacements Requiring Lamp and Ballast Change	Replacements Requiring Only Lamp Change	
	Most Efficient Option: Reduced Power per Fixture and Higher Lamp Efficacy	Medium Efficiency Option: Reduced Power per Fixture and Higher Lamp Efficacy	Least Efficient Option: Same Power per Fixture; Higher Lamp Efficacy
F96T12/CW/HO (110W, 62CRI)	*	F96T12/HO/ES (95 W, 4100K, 70CRI) F96T12/HO/ES (95 W, 4100K, 80CRI) F96T12/CW/HO/ES (95W, 62CRI) F96T12/LW/HO/ES (95W, 48CRI)	F96T12/HO (110W, 4100K, 70CRI) F96T12/HO (110W, 4100K, 80CRI)
F96T12/W/HO (110W, 60CRI)	*	F96T12/HO/ES (95 W, 3500K, 70CRI) F96T12/HO/ES (95 W, 3500K, 80CRI)	F96T12/HO (110W, 3500K, 70CRI) F96T12/HO (110W, 3500K, 80CRI)
F96T12/WW/HO(110W, 52 CRI)	* F96T12/HO/ES (95 W, 3000K, 80CRI) F96T12/WW/HO/ES (95W, 52CRI)	F96T12/HO/ES (95 W, 3000K, 70CRI)	F96T12/HO (110W, 3000K, 70CRI) F96T12/HO (110W, 3000K, 80CRI)
F96T12/D/HO (110W, 75 CRI)	*	F96T12/HO/ES (95 W, 6500K, 80CRI)	F96T12/HO (110W, 6500K, 80CRI)

Notes:

* F96T8 lamps should be available within the next two years

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| <ol style="list-style-type: none"> 1) Specific substitutions should be made in accordance with application specific requirements such as colour rendering and low temperatures. 2) Full wattage lamps may be required for ambient temperatures below 16 °C and ballasts that are of either the dimming, cold temperature, or low power factor types; check with vendor. 3) Values given for wattage (W), colour temperature (K), colour rendering index (CRI), and dimensions are nominal or approximate; contact vendor for specific model specifications. | <ol style="list-style-type: none"> 4) Some lamp types may not be available from all manufacturers and suppliers; consult sales representatives for specific details. 5) Efficacy is the light output of a lamp per watt of electricity input. 6) /CW denotes cool white (4100K). /D denotes daylight (6500K). /W denotes white (3500K). /LW denotes lite white (3000K). /WW denotes warm white (3000K). 7) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations. 8) T12 lamps have diameter of 12/8 in. versus 8/8 in. for T8 lamps. 9) HO denotes high output lamp. |
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Table 3. Fluorescent lamps that will be discontinued and generic replacements of type rapid-start 560-635 mm (22-25 inch), U-shaped, medium bin-pin base

Non-complying Lamps	Replacements Requiring Lamp and Ballast Change	Replacements Requiring Only Lamp Change	
	Most Efficient Option: Reduced Power per Fixture and Higher Lamp Efficacy	Medium Efficiency Option: Reduced Power per Fixture and Higher Lamp Efficacy (see Note 2)	Least Efficient Option: Same Power per Fixture; Higher Lamp Efficacy
F40T12/CW/U6 (40W, 62CRI)	F32T8/U6 (32W, 4100K, 82CRI) F32T8/U6 (32W, 4100K, 75CRI)	F40T12/U6/ES (34 W, 4100K, 70CRI) F40T12/CW/U6/ES (34W, 62CRI)	F40T12/U6 (40W, 4100K, 70CRI)
F40T12/W/U6 (40W, 60CRI)	F32T8/U6 (32W, 3500K, 82CRI) F32T8/U6 (32W, 3500K, 75CRI)	F40T12/U6/ES (34 W, 3500K, 70CRI) F40T12/W/U6/ES (34W, 60CRI)	F40T12/U6 (40W, 70CRI)
F40T12/WW/U6 (40W, 52CRI) F40T12/WWX/U6 (40W, 77CRI)	F32T8/U6 (32W, 3000K, 82CRI) F32T8/U6 (32W, 3000K, 75CRI)	F40T12/U6/ES (34 W, 3000K, 70CRI) F40T12/WW/U6/ES (34W, 52CRI)	F40T12/U6 (40W, 3000K, 80CRI) F40T12/U6 (40W, 3000K, 70CRI)
F40T12/CW/U3 (40W, 62CRI)		F40T12/CW/U3/ES (34W, 62CRI)	F40T12/U3 (40W, 4100K, 70CRI)
F40T12/WW/U3 (40W, 52 CRI)		F40T12/WW/U3/ES (34W, 52CRI)	F40T12/U3 (40W, 3000K, 80CRI) F40T12/U3 (40W, 3000K, 70CRI)

Notes:

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| <ul style="list-style-type: none"> 1) Specific substitutions should be made in accordance with application specific requirements such as colour rendering and low temperatures. 2) Full wattage lamps may be required for ambient temperatures below 16 °C and ballasts that are of either the dimming, cold temperature, or low power factor types; check with vendor. 3) Values given for wattage (W), colour temperature (K), colour rendering index (CRI), and dimensions are nominal or approximate; contact vendor for specific model specifications. | <ul style="list-style-type: none"> 4) Some lamp types may not be available from all manufacturers and suppliers; consult sales representatives for specific details. 5) Efficacy is the light output of a lamp per watt of electricity input. 6) /CW denotes cool white (4100K). /D denotes daylight (6500K). /W denotes white (3500K). /WW denotes warm white (3000K). /WWX denotes warm white deluxe (3000K). 7) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations. 8) T12 lamps have diameter of 12/8 in. versus 8/8 in. for T8 lamps. |
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Table 4. Fluorescent lamps that will be discontinued and generic replacements of type instant-start 2400 mm (96 inch), straight-shaped, single pin base (slimline)

Non-complying Lamps	Replacements Requiring Lamp and Ballast Change		Replacements Requiring Only Lamp Change	
	Most Efficient Option: Reduced Power per Fixture and Higher Lamp Efficacy	Medium Efficiency Option: Reduced Power per Fixture and Higher Lamp Efficacy (see Note 2)	Least Efficient Option: Same Power per Fixture; Higher Lamp Efficacy	
F96T12/CW (75W, 62CRI)	F96T8 (59W, 4100K, 82CRI) F96T8 (59W, 4100K, 75CRI) F96T12/CW/ES (60W, 62CRI)	F96T12/ES (60W, 4100K, 80CRI) F96T12/ES (60W, 4100K, 70CRI)	F96T12 (75W, 4100K, 80CRI) F96T12 (75W, 4100K, 70CRI)	
F96T12/W (75W, 60CRI)	F96T8 (59W, 3500K, 82CRI) F96T8 (59W, 3500K, 75CRI)	F96T12/ES (60W, 3500K, 80CRI) F96T12/ES (60W, 3500K, 70CRI) F96T12/W/ES (60W, 60CRI)	F96T12 (75W, 3500K, 80CRI) F96T12 (75W, 3500K, 70CRI)	
F96T12/WW (75W, 52 CRI) F96T12/WWX (75W, 77CRI)	F96T8 (59W, 3000K, 82CRI) F96T8 (59W, 3000K, 75CRI)	F96T12/ES (60W, 3000K, 80CRI) F96T12/ES (60W, 3000K, 70CRI) F96T12/WW/ES (60W, 52CRI)	F96T12 (75W, 3000K, 80CRI) F96T12 (75W, 3000K, 70CRI)	
F96T12/D (75W, 75CRI)		F96T12/ES (60W, 6500K, 80CRI)	F96T12 (75W, 6500K, 80CRI)	

Notes:

- 1) Specific substitutions should be made in accordance with application specific requirements such as colour rendering and low temperatures.
- 2) Full wattage lamps may be required for ambient temperatures below 16 °C and ballasts that are of either the dimming, cold temperature, or low power factor types; check with vendor.
- 3) Values given for wattage (W), colour temperature (K), colour rendering index (CRI), and dimensions are nominal or approximate; contact vendor for specific model specifications.
- 4) Some lamp types may not be available from all manufacturers and suppliers; consult sales representatives for specific details.
- 5) Efficacy is the light output of a lamp per watt of electricity input.
- 6) /CW denotes cool white (4100K). /D denotes daylight (6500K). /W denotes white (3500K). /WW denotes warm white (3000K). /WWX denotes warm white deluxe (3000K).
- 7) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations.
- 8) T12 lamps have diameter of 12/8 in. versus 8/8 in. for T8 lamps.

INCANDESCENT REFLECTOR LAMPS

Table 5. Parabolic incandescent reflector lamps that will be discontinued and generic replacements.

<u>Noncomplying Lamps</u>	Compliant Replacements (Contact Vendors Regarding Additional Compliant <u>Replacements</u>) ¹
75PAR38 (75W)	45PAR38/H (45W), 75PAR38/ES (65W)*
100PAR38 (100W)	75PAR38/H (75W), 100PAR38/ES (80W)*
150PAR38 (150W)	90PAR38/H (90W), 150PAR38/ES (120W)*

Notes:

* Some vendors' products may not meet efficiency requirements; check with vendor representative.

1) This list only includes substitutions available in Canada at the time of writing. Other types, such as halogen lamps with infrared reflecting coatings, may become available after publication. Contact vendors for information.

- 2) Specific substitutions should be made in accordance with the requirements of specific lighting applications.
- 3) Contact vendor for specific model specifications.
- 4) H denotes a halogen lamp.
- 5) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations.

Table 6. Incandescent reflector lamps that will be discontinued and generic replacements.

<u>Noncomplying Lamps</u>	<u>Compliant Direct Replacements (Contact Vendors for Information on Relative Efficiency of Specific Models and Additional Compliant Replacements)</u>
75R25 (75W)	50R30/ES (45W)*, 50PAR20H, 50PAR30LN/H (50W), 50R20 (50W), 75PAR16
50R30 (50W)	50R30/ES (45W)*, 40R30/K (40W)
75R30 (75W)	75R30/ES (65W)*, 60R30/K (60W), 50PAR30LN/H (50W), 65BR30/K
100R30 (100 W)	75R30/ES (65W)*, 75PAR30LN/H (75W), 75BR30/K, 85BR30*
75R40 (75W)	75R40/ES (65W)*, 50PAR30LN/H (50W), 65BR40*
100R40 (100W)	75PAR38/H (75W), 60PAR38/H (60W), 85BR40*
150R40 (150W)	90PAR38/H (90W), 120BR40*
200R40 (200W)	150PAR38/H (150W), 120BR40*

Notes:

* Some vendors' products may not meet efficiency requirements; check with vendor representative.

* * Higher efficiencies can be achieved by using fluorescent lamps with electronic ballast).

- 1) This list only includes substitutions available in Canada at the time of writing. Other types, such as halogen lamps with infrared reflecting coatings, may become available after publication. Contact vendors for information.
- 2) Specific substitutions should be made in accordance with the requirements of specific lighting applications.
- 3) Contact vendor for specific model specifications.
- 4) H denotes a halogen lamp.
- 5) /K denotes a krypton lamp.
- 6) ES is the generic designation for energy saving (reduced wattage) lamps; manufacturers use proprietary designations.

7) LN denotes a long neck lamp.

