



SPECIFICATION SHEET

T8 Direct Install LED Lamp†

Operates with Compatible Ballast

Item Number **04049**

Specifications

Energy Used (Watts).....	33
Domestic Code	LED 33T8/96"/40 Direct Install
Volts	Ballast Dependant
Brightness (Lumens)	4400
Average Rated Hours	50,000
Life in Years (3 hrs./day)	45.6
Life in Years (12 hrs./day)	11.4
Light Appearance (Kelvin).....	4000
CRI	82
Efficacy (LPW).....	133
Number of LED Modules.....	168
Minimum Starting Temperature.....	-20°C/-4°F
Estimated Yearly Energy Cost*.....	\$3.97
Package Type	Sleeve

Can be used in totally enclosed fixtures.

Direct replacement for 96" single pin base linear fluorescent lamps.

† Dimmable when used with applicable ballast.



Physical Characteristics

Color Designation	Cool White
Finish.....	Frost
Base.....	Single Pin
MOL	96"



Warning

- Turn power off before inspection, installation, or removal.
- Risk of electric shock - Do not use where exposed to water or weather.
- Do not open - no user serviceable parts inside.
- This device is not intended for use with emergency exit luminaires or emergency exit lights.
- This device complies with Part 15 of the FCC rules and has been tested and found to comply with the limits for a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

*Based on 3 hrs./day 11¢/kWh - Cost depends on rates and use.

Compatible Ballasts (Instant Start)

One Lamp, Instant Start

Manufacturer	Series/Model
ESPEN	VE259MVHIP, VE275MVHIP
GENERAL ELECTRIC	GE-159-MAX-N/Ultra, GE259MAX-L/ULTRA, GE259MAX-N/ULTRA, GE260ISMV-N-DIYB, GE-286-HO-MV-N, GE286MAX-HO-N
KEYSTONE	KTEB-259-1-IS-N, KTEB-259-UV-IS-N, KTEB-275-UV-TP-PIC, KTEB-275-UV-TP-PIC-SL, KTEB-286HO-UV-IS-N, KTSB-E-0216-12-UV, KTSB-E-0432-14-UV /A, KTSB-E-1040-14-UV, KTSB-E-0848-46-UV /A
OSRAM SYLVANIA	QHE 2x59T8/UNV ISH, QHE 2x59T8/UNV ISL-SC, QHE 2x59T8/UNV ISN-SC, QT 2x96/277 IS, QTP 2x59T8/UNV ISN-SC
PHILIPS-ADVANCE	ICN-2P60-N
ROBERTSON	ISL296T12MV
UNIVERSAL LIGHTING TECHNOLOGIES	B259IUNVHP-A, B260IUNVHP

Two Lamps, Instant Start

Manufacturer	Series/Model
ESPEN	VE259MVHIP, VE275MVHIP
GENERAL ELECTRIC	GE259MAX-L/ULTRA, GE259MAX-N/ULTRA, GE260ISMV-N-DIYB, GE-286-HO-MV-N, GE286MAX-HO-N
KEYSTONE	KTEB-259-1-IS-N, KTEB-259-UV-IS-N, KTEB-275-UV-TP-PIC, KTEB-275-UV-TP-PIC-SL, KTEB-286HO-UV-IS-N, KTSB-E-0216-12-UV, KTSB-E-0432-14-UV /A, KTSB-E-1040-14-UV, KTSB-E-0848-46-UV /A
OSRAM SYLVANIA	QHE 2x59T8/UNV ISH, QHE 2x59T8/UNV ISL-SC, QHE 2x59T8/UNV ISN-SC, QT 2x96/277 IS, QTP 2x59T8/UNV ISN-SC
PHILIPS-ADVANCE	ICN-2P60-N
ROBERTSON	ISL296T12MV
UNIVERSAL LIGHTING TECHNOLOGIES	B259IUNVHP-A, B260IUNVHP

Three Lamps, Instant Start

Manufacturer	Series/Model
KEYSTONE	KTSB-E-0432-14-UV /A, KTSB-E-1040-14-UV, KTSB-E-0848-46-UV /A

Four Lamps, Instant Start

Manufacturer	Series/Model
KEYSTONE	KTSB-E-0432-14-UV /A, KTSB-E-1040-14-UV, KTSB-E-0848-46-UV /A

Five Lamps, Instant Start

Manufacturer	Series/Model
KEYSTONE	KTSB-E-0848-46-UV /A

Six Lamps, Instant Start

Manufacturer	Series/Model
KEYSTONE	KTSB-E-0848-46-UV /A

Compatible Ballasts (Rapid Start)

One Lamp, Rapid Start

Manufacturer	Series/Model
KEYSTONE	KTSB-E-0208-11-1-S, KTEB-2110-UV-TP-PIC, KTSB-E-0416-12-1-S

Two Lamps, Rapid Start

Manufacturer	Series/Model
KEYSTONE	KTEB-2110-UV-TP-PIC, KTSB-E-0416-12-1-S

Specifications are subject to change without notice, please visit www.westinghouselighting.com for latest information.

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