

2' x 2'

2 Lamp

T5, T5HO, or T8

APPLICATION

- Internal retrofit package to convert lensed troffers to 2-lamp straight lamp cross section.
- A trial installation is recommended before ordering project quantities.
- Internal housing length must be 23-15/16" or greater to accommodate T8 lamps. T5/T5HO lamps can be used in shorter housings.
- Package includes telescoping channel assembly. Existing enclosure is retained.
- High lumen lamps & high efficiency ballasts are recommended to minimize energy consumption without sacrificing light levels.
- Energy savings up to 19% are possible compared to conventional 2-lamp T8 U-lamp/electronic systems and up to 43% compared to 2-lamp T12 U-lamp/magnetic systems, while maintaining existing light levels.
- Retrofit with high efficiency 1.37 ballast factor ballast and high lumen T8 (LPT835HL) lamps consumes 47W, provides the same lumens as a conventional 2-lamp T8 U-lamp/EB system at approx. 58W.
- Retrofit with high efficiency high ballast factor (EBHHE) ballast and high lumen T8 (LPT835HL) lamps consumes 41W, provides the same lumens as a 2-lamp T12ES U-lamp/magnetic system at approx. 72W.

- Examination of existing light levels is highly recommended, reduced levels may be appropriate and will provide additional energy savings.
- Lighting power densities as low as 0.7 Watts/square foot are possible in many cases while maintaining recommended light levels.

ELECTRICAL

- Channel assembly is fully wired with ballast and lampholders.
- Lamp/ballast systems are available offering electrical system efficacy ratings up to 90 Lumens/Watt.
- Step dimming ballasts can be switched to 50% (or less) input power for energy savings to meet most energy codes while maintaining symmetrical illumination.
- UL listed for damp locations. Canadian certified optional.
- Channel assembly serves as a wiring enclosure.

ENCLOSURES

- Retains existing enclosure assembly, retrofit package is internal to the luminaire housing.

CATALOG NUMBER

2	ILR	2		-		-	1/2	-		-	
WIDTH	FIXTURE FAMILY	NO. OF LAMPS	LAMP TYPE/WATTAGE		BALLAST CONFIG.		OPTIONS				
2 - 2'	ILR - Internal Troffer Retrofit	(not included) 2	14 - 14wT5 (22") 17 - 17wT8 (24") 24HO - 24wT5HO (22")		1/2 - One 2-Lamp ballast		<p>CM - Canadian Market</p> <p>GLR# - Fusing, fast blow (# = number of ballasts)</p> <p>LPT730* - Installed T8 lamps, 70+ CRI, 3000K</p> <p>LPT735* - Installed T8 lamps, 70+ CRI, 3500K</p> <p>LPT741* - Installed T8 lamps, 70+ CRI, 4100K</p> <p>LPT830HL* - Installed T8 hi lumen lamps, 80+ CRI, 3000K</p> <p>LPT835HL* - Installed T8 hi lumen lamps, 80+ CRI, 3500K</p> <p>LPT841HL* - Installed T8 hi lumen lamps, 80+ CRI, 4100K</p> <p>LPT830* - Installed T8/T5/T5HO lamps, 80+ CRI, 3000K</p> <p>LPT835* - Installed T8/T5/T5HO lamps, 80+ CRI, 3500K</p> <p>LPT841* - Installed T8/T5/T5HO lamps, 80+ CRI, 4100K</p>				
				VOLTAGE							
				120 277 347 UNV - Universal voltage, 120-277 volt							

- BALLAST**
- EBD - T5/T5HO/T8/CF electronic dimming ballast
 - EB - T5/T5HO/T8/CF electronic ballast, std. ballast factor
 - EBL - T8 Electronic ballast, low ballast factor
 - EBH - T8 Electronic ballast, hi ballast factor
 - EB101 - T8 Electronic ballast, <10% THD, instant start
 - EB10R - T8 Electronic ballast, <10% THD, rapid start
 - EBSD - T8 Electronic step dimming ballast
 - EB115 - 14wT5 Electronic ballast, 1.15 ballast factor
 - EBSD95 - 14wT5 Electronic step dimming ballast, .95 ballast factor
 - EBSD115 - 14wT5 Electronic step dimming ballast, 1.15 ballast factor
 - EBHE - T8 Electronic ballast, high efficiency, std. ballast factor
 - EBLHE - T8 Electronic ballast, high efficiency, low ballast factor
 - EBHHE - T8 Electronic ballast, high efficiency, high ballast factor

* Lamps included, bulk packed in carton quantities.

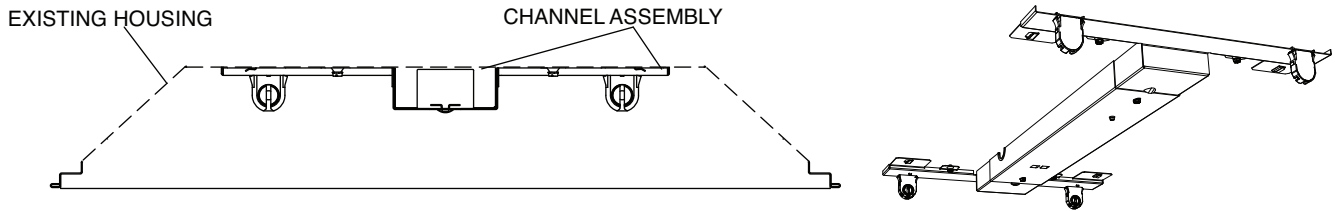
JOB INFORMATION

470.1-SR

ENERGY DATA Compare to "standard" 2-lamp T8 U-lamp/electronic systems at approx. 58W or T12 ES U-lamp/magnetic systems at approx. 72W.

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-lumen Lamps
14	EB	34W / 34W	84	–
	EBSD95@hi	35W / 35W	77	–
	EBSD95@lo	16W / 16W	62	–
	EBSD115@hi	38W / 37W	84	–
	EBSD115@lo	18W / 19W	57	–
17	EB	34W / 34W	76	86
	EBHE	30W / 30W	80	90
	EB10I	33W / 33W	75	85
	EB10R	34W / 34W	74	84
	EBL	30W / 30W	76	86
	EBLHE	27W / 27W	79	89
	EBH	43W / 43W	78	88
	EBHHE	40W / 40W	78	89
	EBSD@hi	30W / 30W	77	87
	EBSD@lo	16W / 16W	50	57
24HO	EB	53W / 52W	77	–
CF40	EB	76W / 73W	79	–
CF50	EB	106W / 106W	85	–
CF55	EB	112W / 109W	79	–

*T8 values assume 70+CRI lamp. 80+CRI lamps with increased lumen ratings are also available.



Photometric performance is dependent on the depth, design, and lens of the existing luminaire. In general, optical efficiency will be superior to the previous configuration.