

TKA - Shallow Direct/Indirect Conversion

Convert 3-Lamp Prismatic Troffers to Direct/Indirect 2-Lamp Troffers.

- Today's CRT based office environments require far lower ambient light levels than paper based workplaces of the past.
- CRT technology has changed, and the aesthetic paradigm has evolved. Today's office environments often require updated aesthetics, and maximum energy efficiency.
- The TKA system will convert a thirty year old T12 or even a five year old T8 Prismatic Troffer, with 3-lamp cross section, to modern 2-lamp Direct/Indirect system utilizing the latest electronic ballast technology.

Convert instead of replacing fixtures on your re-lighting project;

- Order with step-dim ballast and GTS for instant Hi Lo Controls
- Lower cost...
- Reduced labor...
- No landfill of old fixture body.

Why P2? It's Simple, Our Experience

- We've been focused on nothing but supporting energy efficient re-lighting projects since 1992. Hit a dead end? Give our application support team a try.

TKA -Conversion Kit



Kit Includes

- (1) New Fixture Liner
- (1) New Double Barrel Louver Assembly
- (2) Socket Bars
- (4) Sockets
- (4) Self Tapping Tech Screws
- (1) Electronic Ballast
- (1) Ballast Disconnect
- (1) Installation Instructions
- Lamps Optional

TKA - 2x4 - T8 - S8M - UL1 - LP - UE - IS

TKA	2x4	T8	S8M	UL1	LP	UE	IS	
Model	Fixt Size	Lamp Type	Socket Type	Voltage	Ballast Factor	Ballast Grade	Ballast Starting	Other

Fixture Series

TKA = Shallow DID Troffer Kit

Fixture Size

2X4 = 2x4 Nominal
2X2 = 2x2 Nominal

Lamp Type

T5 = Linear T5 Lamps
T8 = Linear T8 Lamps

Socket Type

S8M = Shunted for Instant Start, T8, Med Socket
N8M = Non-Shunted for Rapid Start, T8, Med Socket
N5M = Non-Shunted for Rapid Start, T5/T5HO Med Socket

Voltage

UL1 = Universal 120-277
UH1 = Universal 347-480

Ballast Factor (1)

LP = Low Power (.75 - .78)
MP = Mid Power (.85 - .88)
MN = Neutral Power (.97 - 1.04)
HP = High Power (1.15 - 1.20)

Ballast Grade

ST = Standard Grade
UE = Ultra Efficient T8

Ballast Starting Method

IS = Instant Start
ISD = Instant Start Step Dimming
PS = Programmed Start
PSD = Program Start Step Dimming

Other

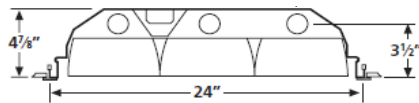
GTS = Hi-Lo Control Single Circuit Toggle Switch (3)

- (1) Ballast factors outside ranges shown to be called out numerically.
(2) Contact Factory for Ordering Assistance)
(3) Can only be used in conjunction with a step dim ballast or 2 standard ballasts

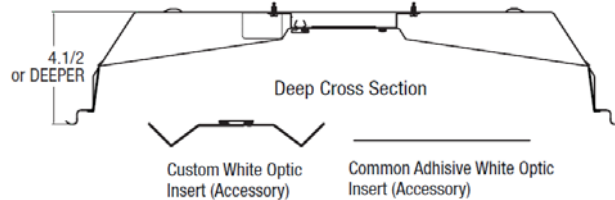
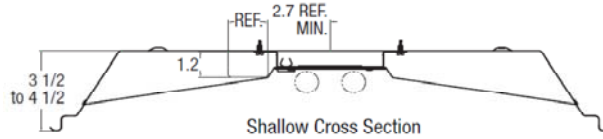
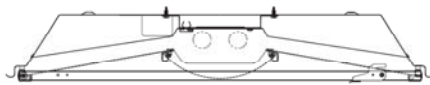
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Conversion Example

Before
3L40 T12, 115 Watts
Full Cutoff



After
2L28 T5, 63 Watts
Direct/Indirect



Existing Systems

Existing Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
3L40-T12 Mag	3 F40/T12/WM	2,280	6,840	0.88	6,019	115	52
3L32-T8-MP Elec	3 F32T8/741	2,660	7,980	0.87	6,943	80	87

Re-Lighting Options

Proposed Lamp / Ballast System	Lamp Quantity & Type	Mean Lumens Per Lamp	Mean Lumens Per Fixture	Ballast Factor	Net Lumens Per Fixture	Input Watts	Net Lumens Per Watt
2L28-T5 Elec	2 F28T5/841	2,418	4,836	1.00	4,836	63	77
2L32-T8-LP Elec	2 F32T8/841	2,800	5,600	0.77	4,312	48	90
2L32-T8-MP Elec	2 F32T8/841	2,800	5,600	0.87	4,872	53	92
2L32-T8-MN Elec	2 F32T8/841	2,800	5,600	1.04	5,824	64	91
2L32T8-HP Elec	2 F32T8/841	2,800	5,600	1.15	6,440	73	88

General Notes:

- Lamp/ballast system values shown are a general reference intended to supply a quick comparison of several common lamp/ballast systems, the associated energy consumption, and net lumen output.
- Fixture efficiencies and layout are not comprehended in the table, but will determine the usefulness of the system.
- Values shown are based on normal operating temperatures and at 277 volts.
- There are many operating variables that affect system output, in addition to rating variances from brand to brand.
- All T8 electronic ballast values shown are based on Ultra Efficient (aka 3rd Generation) T8 ballasts.
- All T8 lamp values shown are for basic grade lamps. Extended life and higher lumen lamps types are available.
- In addition to those shown there are a wide variety of systems to choose from, each with distinct features and cost points.
- Please consult the lamp/ballast manufacturer's catalogs for the detailed information required to model your system.