

FEATURES

- Housing depth of only 1½" – no taller than standard T-bar
- Does not intrude into usable plenum space
- Unique telescoping housing minimizes installation depth and simplifies installation
- Employs T5 or T5HO technology for high efficiency and high performance
- Shielding options include injection molded baffle or linear prismatic lens with high-transmission surface relief diffuser film
- Soft, uniform light distribution provides excellent vertical illumination free from harsh contrast
- Surface mount depth only 1⅞". Using an enclosing shell that combines with standard ZPT recessed fixtures, the surface mount housing can be ordered with the fixture or separately

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing and end caps are die formed code gauge cold rolled steel. Rotating locking lampholders standard. Open reflector style of acrylic lens option (LSR) features linear prisms sculpted into the surface for a distinct ribbed texture.

FINISH

White painted parts are treated with a five stage phosphate bonding process and finished after fabrication with a minimum 90% reflective gloss baked enamel.

CEILING COMPATIBILITY

Luminaire is available to fit most standard ceiling types. NEC-compliant T-bar clips supplied with all grid trim fixtures. See ceiling details on reverse. For hard ceilings order G trim and FK flange accessory. Assemble then support FK accessory at ceiling plane using tie wires (by others). For ⅝" wide ceiling tees order ⅞ G kit accessory to trim fixture corners. For Surface Mount order SM trim option or G trim with accessory surface mounting kit. Finished depth of surface mounted fixture is 1⅞". Wiring access for surface fixtures from back of fixture only. Not suitable for end-to-end mounting.

INSTALLATION

Unique telescoping housing is 1½" deep allowing installation in extremely shallow plenums. Housing

is formed in two interlocking sections compressed narrower than the T-bar opening to simplify handling and reduce the depth required for installation to 3" required at one end of the fixture only. Once the fixture is in place in the T-bar opening the installer slides the two portions to full width. Tabbed design automatically locks the fixture to full width. An access plate is furnished with each luminaire for fast wiring access. No need to open fixture.

ELECTRICAL

Standard class "P", thermally protected, auto-resetting HPF ballast, sound rated A. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE ZPT14-228G-LSRO-EPU

ZPT 14 - 2				0 -			
MODEL	NO. OF LAMPS	CEILING TYPE	REFLECTOR	VOLTAGE	OPTIONS		
ZPT Zero Plenum® Troffer	2 Two	G Grid SM Surface Mount ¹	O Open	U 120V-277V 347 347V	F5830	30K 85CRI T5 or T5HO Lamps Installed	
					F5835	35K 85CRI T5 or T5HO Lamps Installed	
					F5841	41K 85CRI T5 or T5HO Lamps Installed	
					GLR	Fast Blow Fuse	
					GMF	Slow Blow Fuse	
					ELS	Emergency Battery Pack (Low profile only)	
					C38890	3-Wire Flex, 90° Connector	
					C48890	4-Wire Flex, (Step Dimming or -EL option), 90° Connector	
					4TB	(4) Bulk T-bar Clips	
					MS9	Master/Satellite Pair w/9' Harness	
					CP	Chicago Plenum	
					EP	Electronic T5, 1.00 Ballast Factor (28W or 54W)	
					EP95	Electronic T5, 0.95 Ballast Factor, Programmed Start (28W Only)	
					ESD95	Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (28W Only)	
					EP115	Electronic T5, 1.15 Ballast Factor, Programmed Start (28W Only)	
					ESD115	Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (28W Only)	
					ESD80	Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only)	
					ED	Electronic T5, 1.00 Ballast Factor, Variable Dimming Ballast (28W or 54W)	
					11EP	(2) 1-Lamp Electronic T5 or T5HO, 1.00 Ballast Factor (28W or 54W), No EL Available	

SIZE
14 1' x 4'

LAMP TYPE
28 4', T5: 28 Watt
54 4', T5HO: 54 or 51 Watt

SHIELDING
LSR Linear Prismatic Lens with Surface Relief Diffuser

BALLAST

EP Electronic T5, 1.00 Ballast Factor (28W or 54W)

EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (28W Only)

ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (28W Only)

EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (28W Only)

ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (28W Only)

ESD80 Electronic T5HO, 0.80 Ballast Factor, Step Dimming, Programmed Start (2-Lamp 54W only)

ED Electronic T5, 1.00 Ballast Factor, Variable Dimming Ballast (28W or 54W)

11EP (2) 1-Lamp Electronic T5 or T5HO, 1.00 Ballast Factor (28W or 54W), No EL Available

ACCESSORIES (ORDER SEPARATELY)

- ZPTSMK14 ZPT Surface Mounting Kit (1' x 4')¹
- FK14 1' x 4' Flange Kit
- ZPT4⅞ G Grid Filler Kit (for use in ⅞" wide tee ceilings)

¹ZPT may be ordered as a factory assembled surface mounted unit, or ordered as a grid "G" ceiling type and surface mounted in the field using the ZPTSMK surface mounting kit. Not suitable for continuous row mounting.

Protected by US Patents 7,234,832 B2; 7,413,323 B2; 7,390,111 B2.
Protected by China Patents ZL200610058339.2; ZL200610058340.5.
Protected by Mexico Patents 263914; 264402.
Protected by Canada Patents 2,537,985; 2,538,201.
Specifications subject to change without notice.

Note: Step dimming ballasts use two hot leads for 100% (both on) or 50% (one on) power.

For ED Electronic Dimming specify voltage and vendor's series.

For a specific ballast vendor show as option.



PHOTOMETRIC DATA

Test 14321 Test Date 5/25/06

LUMINAIRE DATA

Luminaire	ZPT14-228G-LSRO Zero Plenum Troffer, Recessed/ Architectural 1x4 2-lamp with linear prismatic lens and opal overlay.
Ballast	ICN-2528
Ballast Factor	1.03
Lamp	F28T5
Lumens per Lamp	2600
Watts	62
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.20 90° = 1.22
Luminous Opening in Feet	Length: 3.92 Width: 0.92 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1181	22.7	28.3
0-40	1908	36.7	45.7
0-60	3285	63.2	78.7
0-90	4171	80.2	100.0
0-180	4171	80.2	100.0

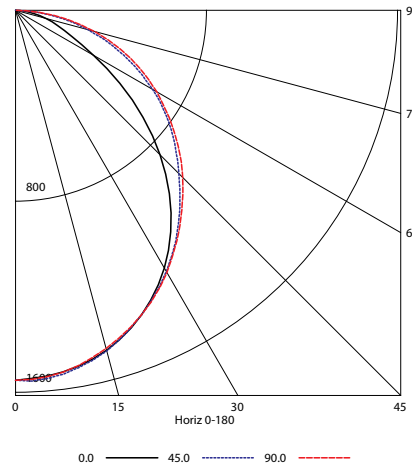
ENERGY DATA

Total Luminaire Efficiency	80.2%
Luminaire Efficacy Rating (LER)	69
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.48 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	87	83	80	77	85	81	78	75	78	75	73	67		
2	79	73	67	62	77	71	66	62	68	64	60	56		
3	72	64	57	52	70	63	56	52	60	55	51	47		
4	66	57	50	44	64	56	49	44	53	48	43	40		
5	61	51	43	38	59	50	43	38	48	42	37	35		
6	56	46	38	33	55	45	38	33	43	37	33	31		
7	52	41	34	29	51	41	34	29	40	34	29	27		
8	49	38	31	26	47	37	31	26	36	30	26	24		
9	46	35	28	24	44	34	28	24	33	28	24	22		
10	43	32	26	22	42	32	26	22	31	25	21	20		

INDOOR CANDELA PLOT



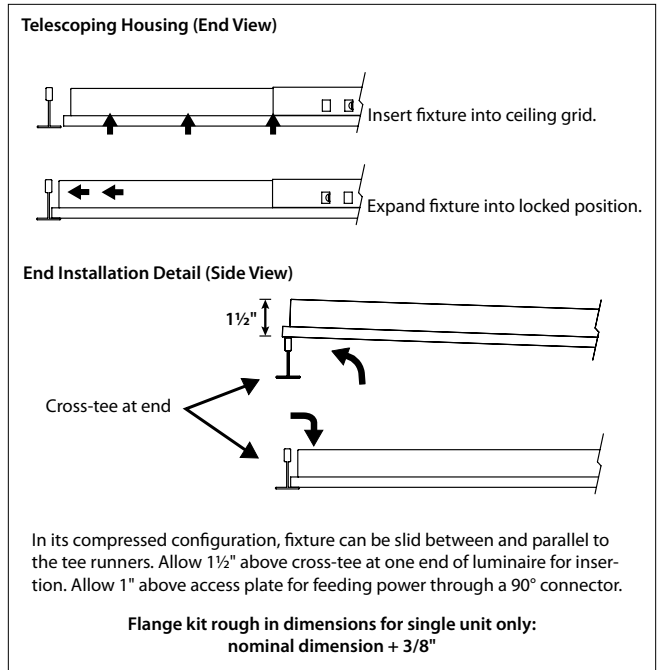
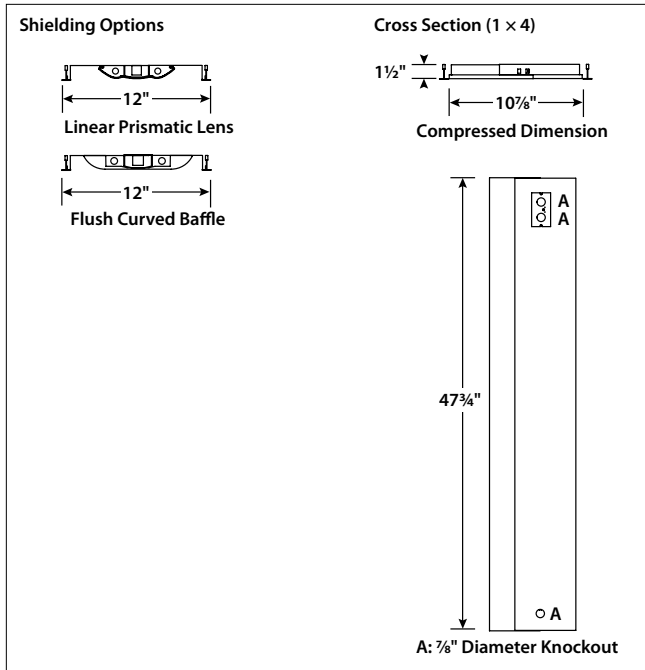
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	4623	4623	4623	4623	4623
30	4294	4301	4353	4370	4367
40	3904	4029	4169	4212	4223
45	3609	3845	4082	4153	4179
50	3236	3659	4040	4119	4133
55	2774	3518	4012	4059	4090
60	2250	3414	3952	4011	4077
65	1843	3319	3870	3976	4047
70	1641	3177	3770	3901	4014
75	1522	2952	3633	3829	3944
80	1358	2647	3455	3661	3816
85	1062	2295	3116	3288	3425

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

DIMENSIONAL DATA



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.