

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 offers choice of Flush Curved Baffle (FCB) shielding option features injection molded, opal translucent or impact-resistant acrylic material or 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). Contact your Columbia representative for compatibility information for specific ceiling types. 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.

PATENTS

This fixture is covered under one or more of the following patents: 7,234,832 B2, 7,390,111 B2, and 7,413,323 B2.

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		
SIZE	LAMP TYPE	SHIELDING	BALLAST				
14 1' x 4'	28 4', T5: 28 Watt 54 4', T5HO: 54 or 51 Watt	LSR Linear Prismatic Lens with Surface Relief Diffuser FCB Flush Curved Baffle	EP Electronic T5, 1.00 Ballast Factor (28W or 54W) EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) 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	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 NYC NYC Compliant NYCU NYC Compliant, Union Label			
ACCESSORIES (ORDER SEPARATELY)							
ZPTSMK14 ZPT Surface Mounting Kit (1' x 4')							
FK14 1' x 4' Flange Kit							

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.

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 14583 Test Date 7/12/05

LUMINAIRE DATA

Luminaire	ZPT14-228G-LSRO-EP ZPT Lensed Troffer 1' x 4' 2-Lamp with Linear Prismatic Lens and Opal Overlay
Ballast	IOP-2528-SC
Ballast Factor	0.95
Lamp	F28T5
Lumens per Lamp	2770
Watts	60
Mounting	Recessed
Shielding Angle	0° = 90 90° = 1.20
Spacing Criterion	0° = 1.18 90° = 1.20
Luminous Opening in Feet	Length: 3.92 Width: 0.92 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1347	24.3	28.4
0-40	2168	39.1	45.7
0-60	3725	67.2	78.5
0-90	4747	85.7	100.0
0-180	4747	85.7	100.0

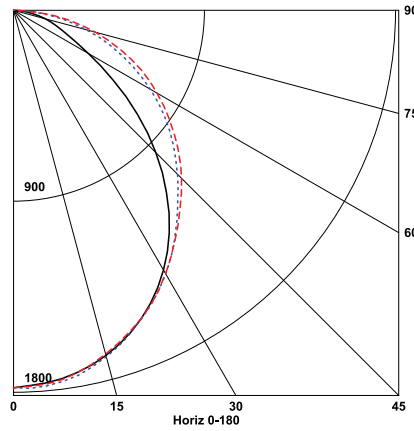
ENERGY DATA

Total Luminaire Efficiency	85.7%
Luminaire Efficacy Rating (LER)	75
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.20 based on 3000 hrs. and \$0.08 per KWH

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50				0				
		RW	70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
1	93	89	85	82	91	87	84	80	83	80	78	71						
2	85	77	72	67	82	76	70	66	73	68	64	60						
3	77	68	61	55	75	67	60	55	64	59	54	50						
4	71	60	53	47	69	59	52	47	57	51	46	43						
5	65	54	46	41	63	53	46	40	51	45	40	37						
6	60	49	41	36	58	48	41	35	46	40	35	33						
7	56	44	37	31	54	44	36	31	42	36	31	29						
8	52	40	33	28	51	40	33	28	39	32	28	26						
9	49	37	30	25	47	37	30	25	36	29	25	23						
10	46	34	28	23	45	34	27	23	33	27	23	21						

INDOOR CANDELA PLOT



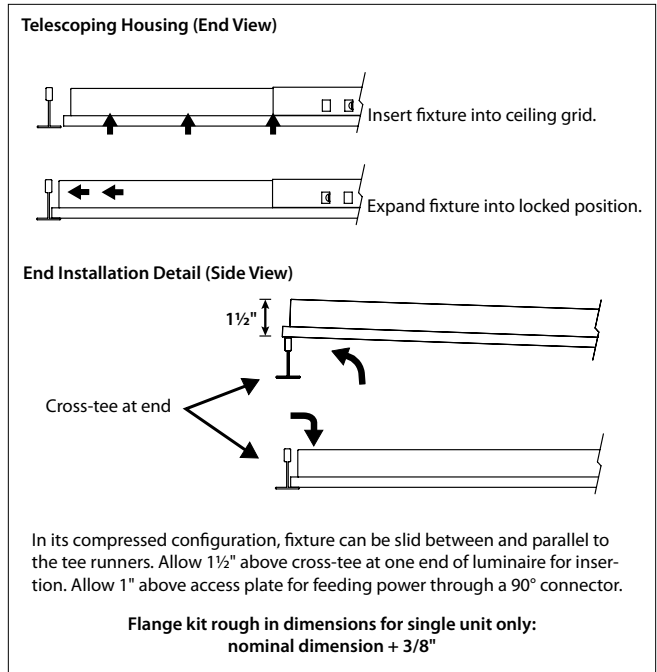
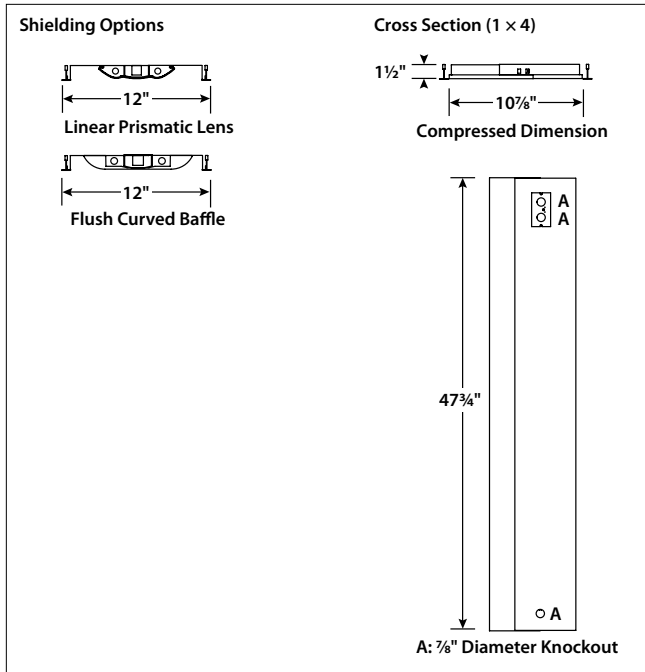
AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	5307	5307	5307	5307	5307
30	4870	4884	4939	4946	4935
40	4368	4547	4687	4738	4753
45	4001	4352	4609	4689	4723
50	3538	4179	4560	4662	4690
55	2982	4069	4512	4610	4657
60	2430	3994	4441	4579	4662
65	2055	3920	4350	4569	4675
70	1885	3752	4250	4520	4651
75	1776	3460	4117	4440	4601
80	1564	3077	3919	4314	4486
85	1199	2568	3562	3938	4075

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.