

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
- Choice of four shielding options and three reflector forms provide a variety of contemporary aesthetics
- Multiple shielding options include injection molded baffle, perforated diffuser, 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. Flush Curved Baffle (FCB) shielding option features injection molded, opal translucent, impact-resistant acrylic material. Acrylic lens option (LSR) features linear prisms sculpted into the surface for a distinct ribbed texture. Perforated metal basket (PRF) and solid basket (SB) options formed from steel and painted gloss white.

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.

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 ZPT22-214G-LSRR-EPU

ZPT 22 - 2									
MODEL	NO. OF LAMPS	CEILING TYPE	REFLECTOR	VOLTAGE	OPTIONS	SIZE	LAMP TYPE	SHIELDING	BALLAST
ZPT Zero Plenum® Troffer	2 Two	G Grid Lay-in SM Surface Mount ¹	O Open (N/A with PRF) S Smooth Curve R Ribbed Curve	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 Consult Factory for Emergency Converter Remote Kit (Low profile only) C38890 3-Wire Flex, 90° Connector C48890 4-Wire Flex, (Step Dimming), 90° Connector 4TB (4) Bulk T-bar Clips NYC NYC Compliant NYCU NYC Compliant, Union Label	22 2' x 2'	14 2', T5: 14 Watt 24 2', T5HO: 24 Watt	LSR Linear Prismatic Lens with Surface Relief Diffuser PRF Metal Perf w/Overlay* FCB Flush Curved Baffle SB Solid Basket	EP Electronic T5, 1.00 Ballast Factor 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) ED Electronic T5, 1.00 Ballast Factor, Variable Dimming Ballast
ACCESSORIES (ORDER SEPARATELY)		*Installation requires 3/2" between ceiling plane and plenum obstructions.							
ZPTSMK22 ZPT Surface Mounting Kit (2' x 2')									
FK22 2' x 2' 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 14319 Test Date 5/11/06

LUMINAIRE DATA

Luminaire	ZPT22-214G-LSRO-EP ZPT Lensed Troffer 2' x 2' 2-Lamp with Linear Prismatic Lens and Opal Overlay
Ballast	ICN-2528
Ballast Factor	1.06
Lamp	F14T5
Lumens per Lamp	1350
Watts	36
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.18 90° = 1.22
Luminous Opening in Feet	Length: 1.92 Width: 1.92 Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	584	21.6	26.4
0-40	945	35.0	42.8
0-60	1644	60.9	74.5
0-90	2208	81.8	100.0
0-180	2208	81.8	100.0

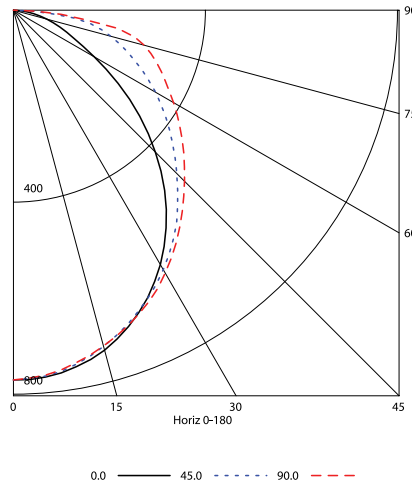
ENERGY DATA

Total Luminaire Efficiency	81.8%
Luminaire Efficacy Rating (LER)	65
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.69 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
1	88	84	80	76	86	82	78	75	78	75	73	67	67	
2	80	72	66	61	77	71	65	61	68	63	59	55	55	
3	72	63	56	51	70	62	56	50	60	54	49	46	46	
4	66	56	49	43	64	55	48	43	53	47	42	39	39	
5	61	50	42	37	59	49	42	37	47	41	36	34	34	
6	56	45	38	32	55	44	37	32	43	36	32	29	29	
7	52	41	34	28	51	40	33	28	39	33	28	26	26	
8	49	37	30	25	47	37	30	25	36	30	25	23	23	
9	45	34	27	23	44	34	27	23	33	27	23	21	21	
10	43	32	25	21	42	31	25	21	30	25	21	19	19	

INDOOR CANDELA PLOT



AVG. LUMINANCE (Candela/Sq. M.)

Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	2248	2248	2248	2248	2248
30	2063	2077	2104	2124	2131
40	1868	1963	2028	2066	2085
45	1726	1891	1986	2052	2081
50	1558	1808	1967	2067	2103
55	1354	1741	1970	2102	2153
60	1133	1694	1997	2172	2248
65	960	1651	2045	2308	2411
70	879	1614	2151	2553	2706
75	812	1591	2369	2978	3181
80	723	1614	2758	3565	3733
85	570	1675	2580	3183	3350

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

DIMENSIONAL DATA

Shielding Options

Flush Curved Baffle

Linear Prismatic Lens

Metal Perforated Diffuser

Cross Section (2 x 2)

1 1/2" $\frac{Y}{A}$

22 7/8" $\frac{Y}{A}$

Compressed Dimension

23 3/4" $\frac{Y}{A}$

A - 7/8" Diameter Knockout

Telescoping Housing (End View)

Insert fixture into ceiling grid.

Expand fixture into locked position.

End Installation Detail (Side View)

1 1/2" $\frac{Y}{A}$

Cross-tee at end

In its compressed configuration, fixture can be slid between and parallel to the tee runners. Allow 1 1/2" above cross-tee at one end of luminaire for insertion. Allow 1" above access plate for feeding power through a 90° connector.

**Flange kit rough in dimensions for single unit only:
nominal dimension + 3/8"**

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