

# ARCHITECTURAL INDIRECT

# AI3

**SUBMITTAL:**

**T5 | T8**

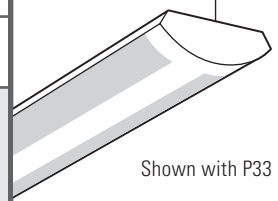
**JOB:**

**TYPE:**

**VOLTAGE:**

**EXAMPLE** → **AI3 P33 - 4 - 3 32 - F - OPTIONS - EB3 - UNV**

SERIES    PERFORATION OPTIONS    NOMINAL LENGTH    TOTAL WATTAGE/LAMPS TYPE    FIXTURE TYPE    OPTIONS/ACCESSORIES    BALLAST TYPE    VOLTAGE

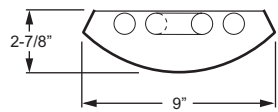


Shown with P33



## FEATURES

- ▶ **Up to 85.4% optical efficiency.**
- ▶ A wide variety of shielding options include slots, louvers, or standard perforation with matte white acrylic overlay.
- ▶ Provided with adjustable aircraft cable mounting and straight feed cord.
- ▶ Ballast and wireway assembly remove for easy maintenance.
- ▶ Self-aligning joining method ensures smooth, straight rows.
- ▶ Inside and outside 90° corners for continuous runs in any space (see back for details).
- ▶ Die-formed, decorative end caps.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – 19- or 20-gauge die-formed, welded C.R.S., dependant on perforation option.

**Reflective Surfaces** – 92% minimum average reflective white polyester powder coat on interior steel components.

**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – Electronic ballast standard, instant start T8, program start T5, rated Class P.

**Mounting** – Suspended. 1/16" diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid ceiling applications provided.

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

### SERIES

**AI3** Architectural Indirect Version 3

### PERFORATION OPTIONS

**P33** 33% open perforation—2 strips

**SLD** Solid underside

**P33F<sup>1,3</sup>** 33% open perforation—full perf<sup>1,3</sup>

**P33WIN<sup>1,3</sup>** 33% open perforation in two strips and center window with matte white acrylic overlay<sup>1,3</sup>

**SLT1** 1/10" x 3" slots on 1" centers down the center of the housing

**SLT2** 1/10" x 3" slots on 1" centers on both sides of the housing

**P33LVR<sup>2,3</sup>** 33% open perforation with louver<sup>2,3</sup>

**SLDLVR<sup>2,3</sup>** Solid underside with louver<sup>2,3</sup>

**SLT2LVR<sup>2,3</sup>** Slots down both sides with louver<sup>2,3</sup>

### NOMINAL LENGTH

**4** 4'

**8** 8'

### TOTAL LAMPS

**1, 2, 3, 4, or 6** T5 (1-, 2-, or 3-lamp cross-section)

**2, 3, 4, 6, or 8** T8 (2-, 3-, or 4-lamp cross-section)

### LAMP WATTAGE/TYPE

**28T5S** 4', 28-watt T5 (1-, 2-, or 3-lamp cross-section, 1- or 2-lamp ballast[s] only)

**32** 4', 32-watt T8 (2-, 3-, or 4-lamp cross-section)

**54T5H** 4', 54-watt T5HO (1-, 2-, or 3-lamp cross-section)

### FIXTURE TYPE

**F** Electrical feeder unit, 3-conductor, straight white cord standard (wire gauge to be determined by row length), quick-connect wiring harness, two end caps included

**J** Joiner unit, quick-connect wiring harness

### OPTIONS

For generic **EM ballast** options (must specify voltage), see Fluorescent Information section. Ballast size restrictions apply.

**C2\_** Two-circuit quick-connect wiring harness. See Fluorescent Information section for complete quick-connect offering.

**KR** Specular aluminum side reflector

### ACCESSORIES

See Fluorescent Information section for **alternate mounting accessories**.

**90° AI3 corner** assembly must be ordered separately. See back for details.

**EC5** 5" sculpted end cap

### BALLAST TYPE

**EB2** 2-lamp electronic ballast

**EB3** 3-lamp electronic ballast

**EB4** 4-lamp electronic ballast

**EB2/1** (1) 2-lamp and (1) 1-lamp ballast

**EB2/2** (2) 2-lamp electronic ballasts

**EB3/3** (2) 3-lamp electronic ballasts

**EB4/4** (2) 4-lamp electronic ballasts

### VOLTAGE

**120** 120V

**277** 277V

**UNV** 120-277V

**347** 347V

<sup>1</sup> P33F or P33WIN option not available in 3-lamp T5HO cross-section.

<sup>2</sup> Louver options not available with T5HO lamp combinations.

<sup>3</sup> Not available in 1-lamp cross-section. Ballast size and quantity restrictions apply for 3-lamp cross-sections, consult factory.

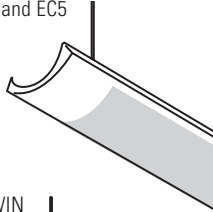
T5 | T8

## PHOTOMETRY

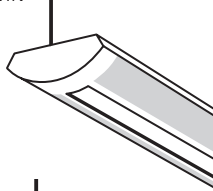
Catalog #: **AI3P33-4-332**

### PERFORATION OPTIONS

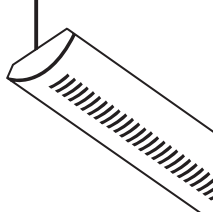
P33F and EC5



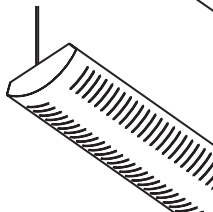
P33WIN



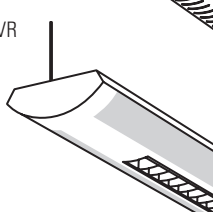
SLT1



SLT2

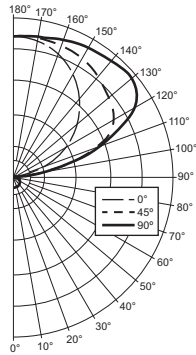


P33LVR



### TEST REPORT INFORMATION

- ▶ Test Report #: 14651.0
- ▶ Date: 04/12/00
- ▶ Lamp Type: F32T8/TL841
- ▶ Lamp Quantity: 3



### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	139.	139.	139.	
5°	140.	140.	138.	13.0
15°	132.	134.	137.	38.0
25°	120.	125.	130.	57.0
35°	103.	110.	119.	69.0
45°	81.	94.	106.	72.0
55°	56.	76.	92.	67.0
65°	30.	62.	75.	57.0
75°	13.	45.	62.	44.0
85°	2.	26.	43.	36.0
90°	3.	66.	107.	
95°	77.	239.	269.	259.0
105°	342.	858.	865.	793.0
115°	632.	1351.	1522.	1189.0
125°	913.	1516.	1880.	1300.0
135°	1166.	1593.	1912.	1214.0
145°	1386.	1674.	1867.	1035.0
155°	1558.	1721.	1832.	789.0
165°	1676.	1743.	1777.	490.0
175°	1734.	1747.	1746.	169.0
180°	1743.	1743.	1743.	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	108.	1.2	1.4
0 - 40	177.	2.0	2.3
0 - 60	315.	3.5	4.1
0 - 90	451.	5.0	5.9
40 - 90	274.	3.1	3.6
60 - 90	136.	1.5	1.8
90 - 180	7238.	80.4	94.1
<b>Total Luminaire:</b>			
0 - 180	7689.	85.4	100.0

Total Luminaire Optical Efficiency: **85.4%**  
Spacing Criteria: Along = 1.2, Across = 1.3

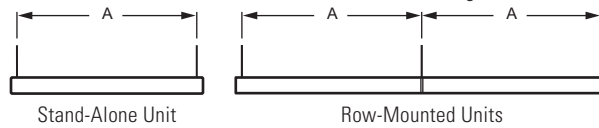
### ZONAL CAVITY COEFFICIENTS

Ceiling	.80			.70			.50			
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.83	.83	.83	.71	.71	.71	.50	.50	.50	
1	.75	.72	.68	.65	.62	.59	.44	.42	.41	
2	.68	.62	.57	.59	.54	.50	.38	.36	.33	
3	.62	.55	.49	.53	.47	.43	.34	.31	.28	
4	.57	.48	.42	.49	.42	.37	.30	.26	.24	
5	.52	.42	.36	.45	.37	.32	.26	.23	.20	
6	.47	.38	.32	.41	.33	.28	.23	.20	.17	
7	.44	.34	.28	.37	.29	.24	.21	.17	.15	
8	.40	.30	.24	.35	.26	.21	.19	.15	.13	
9	.37	.27	.21	.32	.24	.19	.17	.14	.11	
10	.35	.25	.19	.30	.22	.17	.16	.12	.10	

Effective Floor Cavity Reflectance = .20

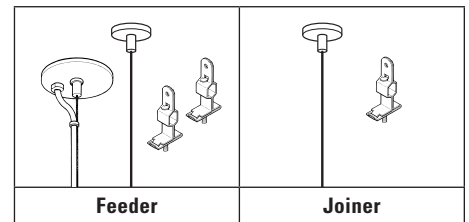
### FIXTURE DETAILS

#### MOUNTING INFORMATION (center to center mounting cable)



Nominal Unit Length	Dimension A
4'	48"
8'	96"

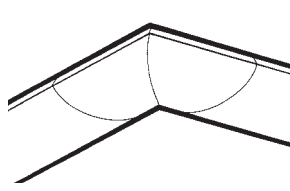
#### STANDARD HARDWARE (grid ceiling applications)



#### Notes:

- Fixtures are provided with adjustable length aircraft cables and choice of T-bar (standard) or optional hard pan ceiling hardware, must specify. See Fluorescent Information section for details.
- Electrical supply is brought into the feeder fixture, either as part of a row or as an individual mount unit. Joiner fixtures complete the row.

#### 90° CORNER ASSEMBLY (for continuous row installations)



**Housing** – 22-gauge die-formed, welded C.R.S.

**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal.

**Example: AI3 CORNER-FWT**