

# ARCHITECTURAL INDIRECT WALL

# AIW

**SUBMITTAL:**

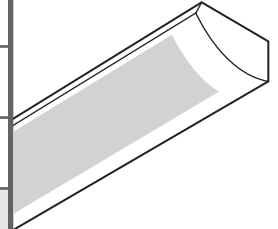
**JOB:**

**TYPE:**

**VOLTAGE:**

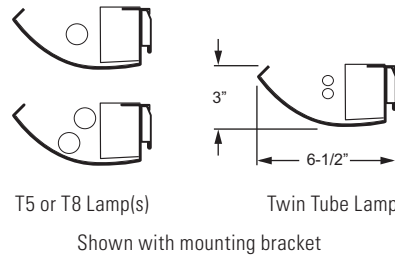
**EXAMPLE** → **AIW P33 - 4 - 2 32 - F - OPTIONS - EB2 - UNV**

SERIES    PERF. OPTIONS    NOMINAL LENGTH    TOTAL WATTAGE/ LAMPS    FIXTURE TYPE    OPTIONS    BALLAST TYPE    VOLTAGE



## FEATURES

- ▶ Complementary to Williams' AI Series, the decorative and versatile AIW provides functional indirect illumination.
- ▶ Non-perforated housing or 33% open perforation beneath lamps offers choice of appearance.
- ▶ Translucent matte white acrylic over perforations provides uniform, luminous effect.
- ▶ Two-lamp fixtures contain offset lamps providing greater upward light.
- ▶ Fixture attaches to wall bracket for simple installation.
- ▶ Ballast and wireway assembly remove for easy maintenance.
- ▶ Self-aligning joining method ensures straight rows.
- ▶ Quick-connect polarized wiring allows easy wiring and service when used in continuous row applications.
- ▶ This fixture is proudly made in the USA.



## AIW SERIES

Complementary to Williams' AI Series, the decorative and versatile AIW provides functional indirect illumination.

**Housing** – 20-gauge die-formed, welded C.R.S.

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

**Shielding** – Die-formed C.R.S. white polyester powder coated diffuser. Open top.

**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** – Fixture attaches to wall mounted, powder coated, die-formed C.R.S. bracket.

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

## ORDERING INFORMATION

### SERIES

**AIW** Architectural Indirect Wall

### PERFORATION OPTIONS

**P33** 33% open perforation with matte white acrylic overlay

**SLD** Solid bottom

**SLT2** 1/10" x 3" slots on 1" centers with matte white acrylic overlay

### NOMINAL LENGTH

1	1'	4	4'
2	2'	6	6'
3	3'	8	8'

### TOTAL LAMPS

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

### LAMP WATTAGE/TYPE

**1' LAMP OPTIONS** (1-lamp only)

**13T4Q** 13-watt compact fluorescent, quad

**26T4Q** 1', 26-watt compact fluorescent, quad

**2' LAMP OPTIONS** (1-lamp only for twin tube)

**14T5S** 2', 14-watt T5

**17** 2', 17-watt T8

**24T5H** 2', 24-watt T5HO

**40TT** 2', 40-watt long twin tube

**50TT** 2', 50-watt long twin tube

**55TT** 2', 55-watt long twin tube

**3' or 6' LAMP OPTIONS** (1- or 2-lamp cross-section)

**21T5S** 3', 21-watt T5

**25** 3', 25-watt T8

**39T5H** 3', 39-watt T5HO

### LAMP WATTAGE/TYPE (Continued)

**4' or 8' LAMP OPTIONS** (1- or 2-lamp cross-section)

**28T5S** 4', 28-watt T5

**32** 4', 32-watt T8

**54T5H** 4', 54-watt T5HO

### FIXTURE TYPE

**F** Electrical z unit, single-circuit quick-connect wiring harness, two end caps included

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

### OPTIONS

For generic EM ballast options (must specify voltage), see Information section.

**C2** Two-circuit quick-connect wiring harness. For complete quick-connect offering, see Information section.

### BALLAST TYPE

**EB1** 1-lamp electronic ballast

**EB2** 2-lamp electronic ballast

**EB4** 4-lamp electronic ballast

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

### VOLTAGE

**120** 120V

**277** 277V

**UNV** 120-277V

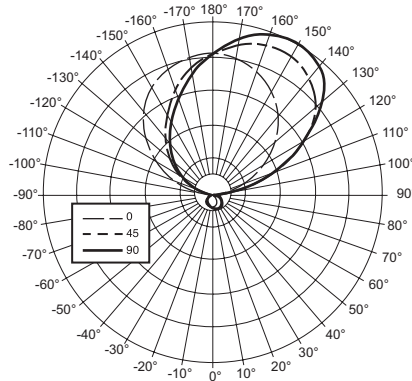
**347** 347V

## PHOTOMETRY INFORMATION

Catalog #: **AIWP33-4-232**

### TEST REPORT INFORMATION

- ▶ Test Report #: 14425.0
- ▶ Date: 01/14/00
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 2



### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	110.	110.	110.	
5°	109.	114.	118.	6.0
15°	105.	121.	126.	17.0
25°	93.	121.	130.	27.0
35°	81.	116.	131.	35.0
45°	63.	107.	124.	39.0
55°	44.	90.	110.	38.0
65°	22.	70.	93.	33.0
75°	8.	46.	68.	23.0
85°	0.	21.	40.	13.0
90°	0.	25.	42.	
95°	41.	114.	124.	58.0
105°	230.	433.	429.	198.0
115°	430.	744.	749.	330.0
125°	617.	1024.	1044.	415.0
135°	785.	1184.	1307.	433.0
145°	925.	1278.	1400.	384.0
155°	1033.	1299.	1412.	293.0
165°	1106.	1269.	1340.	178.0
175°	1145.	1188.	1205.	58.0
180°	1150.	1150.	1150.	

### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	.64	.64	.64	.56	.56	.56	.40	.40	.40
1	.58	.56	.53	.51	.48	.46	.35	.33	.32	
2	.53	.49	.45	.46	.42	.39	.30	.28	.27	
3	.48	.43	.38	.42	.37	.33	.27	.24	.22	
4	.44	.38	.33	.38	.33	.29	.24	.21	.19	
5	.40	.33	.28	.35	.29	.25	.21	.18	.16	
6	.37	.30	.25	.32	.26	.22	.19	.16	.14	
7	.34	.26	.22	.29	.23	.19	.17	.14	.12	
8	.31	.24	.19	.27	.21	.17	.15	.12	.10	
9	.29	.21	.17	.25	.19	.15	.14	.11	.09	
10	.27	.20	.15	.23	.17	.13	.12	.10	.08	

Effective Floor Cavity Reflectance = .20

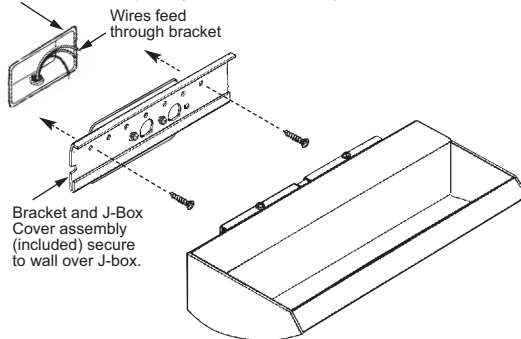
### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	84.	1.4	2.2
0 - 40	137.	2.3	3.5
0 - 60	239.	4.1	6.1
0 - 90	314.	5.3	8.1
40 - 90	176.	3.0	4.5
60 - 90	75.	1.3	1.9
90 - 180	3587.	60.8	92.0
<b>Total Luminaire:</b>			
0 - 180	3901.	66.1	100.0

Total Luminaire Optical Efficiency: **66.1%**

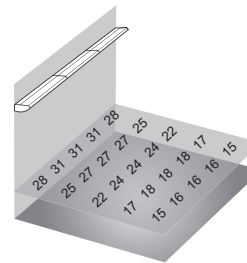
### MOUNTING DETAILS

J-Box (not provided) mounted **horizontally** (if attaching to existing vertical J-box, J-box cover will be partially visible below fixture).



1' fixture shown. All lengths install in same manner. Row installation is detailed in instructions provided at [www.hewilliams.com](http://www.hewilliams.com)

### FOOTCANDLE ESTIMATOR



Footcandle calculations based on standard reflectance of 80/50/20 and a light loss factor of .85.

Fixtures installed at 8' mounting height in 12' x 12' room with 10'-0" ceiling. Values shown are at 30" work surface height.

