

# ARCHITECTURAL LED TROFFER – STRAIGHT FLOATING CENTER

# AT3

tunable **WHITE** | PoE

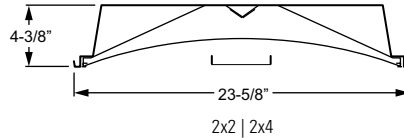
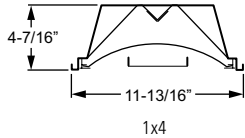


|            |        |
|------------|--------|
| CATALOG #: | TYPE:  |
| PROJECT:   | NOTES: |

**EXAMPLE** → **AT3 - 2 4 - P66/835 - D - OPTIONS - POE N**

SERIES    NOM. NOM.    LUMEN    CRI &    SHIELDING    OPTIONS    CONTROL  
W.    L.    PACKAGE    CCT

## CROSS SECTION



## ORDERING INFORMATION

| SERIES     |  |
|------------|--|
| <b>AT3</b> | Architectural LED Troffer – Straight Floating Center – PoE |

| NOMINAL WIDTH |    |
|---------------|----|
| <b>1</b>      | 1' |
| <b>2</b>      | 2' |

| NOMINAL LENGTH |                    |
|----------------|--------------------|
| <b>2</b>       | 2' (2' width only) |
| <b>4</b>       | 4'                 |

## LED PACKAGE

| Example: P66/835 |                |         |
|------------------|----------------|---------|
| LUMEN PACKAGE    | NOMINAL LUMENS | WATTAGE |
| <b>1x4</b>       |                |         |
| <b>P18</b>       | 1,800          | 16      |
| <b>P25</b>       | 2,500          | 24      |
| <b>P53</b>       | 5,300          | 49      |
| <b>2x2</b>       |                |         |
| <b>P18</b>       | 1,800          | 15      |
| <b>P26</b>       | 2,600          | 24      |
| <b>P55</b>       | 5,500          | 49      |
| <b>2x4</b>       |                |         |
| <b>P31</b>       | 3,100          | 24      |
| <b>P66</b>       | 6,600          | 49      |
| <b>P122</b>      | 12,200         | 100     |

Nominal lumen output based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see fixture performance data.

## CRI & CCT

|            |                                     |
|------------|-------------------------------------|
| <b>827</b> | 82 CRI, 2700K                       |
| <b>830</b> | 82 CRI, 3000K                       |
| <b>835</b> | 82 CRI, 3500K                       |
| <b>840</b> | 82 CRI, 4000K                       |
| <b>8TW</b> | Tunable white (80 CRI, 3000K–5000K) |

| SHIELDING |                              |
|-----------|------------------------------|
| <b>D</b>  | Diffuse matte acrylic center |

| OPTIONS        |  |
|----------------|--|
| <b>EQCLIPS</b> | Earthquake clips (4 per fixture)                                     |
| <b>SS</b>      | Gasketed clear flat acrylic lens                                     |
| <b>AMW</b>     | Anti-microbial white finish  |
| <b>NEMA F</b>  | NEMA Type "F" flange kit, factory-installed (see page 2 for details) |

| ACCESSORIES  |  |
|--|--|
| See <a href="http://hew.com/poe">hew.com/poe</a> for compatible sensors & switches |  |

| CONTROL   |   |
|---|---|
| For additional PoE info, see <a href="http://hew.com/poe">hew.com/poe</a> |   |
| 1' x 4' fixture requires remote mounting, see page 2 for details.         |   |
| <b>POE N</b>  | Power over Ethernet network node                                      |
| <b>POE D</b>  | Power over Ethernet device node (not available for fixtures over 40W) |

## FEATURES

- ▶ Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.
- ▶ Tunable white from 3000K to 5000K CCT, minimum 80 CRI.
- ▶ Efficacies up to 139 lm/W
- ▶ Straight floating lens effect creates an appealing visual appearance.
- ▶ Matte white paint and diffuse lens combination provide pleasing architectural aesthetics with non-glare reflective surfaces
- ▶ Sleek, extruded center complements LX4 continuous light series.
- ▶ Quiet and smooth illumination for visual comfort
- ▶ Hinged door frame with optical assembly swings down to allow easy access from room side of fixture
- ▶ Optional gasketed acrylic lens adds extra layer of protection
- ▶ This fixture is proudly made in the USA

## SYSTEM REQUIREMENTS

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See [hew.com/poe](http://hew.com/poe) for details



### SPECIFICATIONS

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

**Door Frame** – Hinged, flat, extruded aluminum door frame with optical assembly.

**Shielding** – Diffuse polycarbonate lens and acrylic center standard.

**Finish** – 95% reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – High quality mid-power LED boards. L70 >60,000 hours per IES TM-21. Low-voltage DC fixture, to be fed by Class 2 power supply. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.

**Mounting** – NEMA Type "G" standard, NEMA Type "F" available.

**Labels** – cCSAus certified as luminaire suitable for dry or damp locations.

**Warranty** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

### IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

### FIXTURE PERFORMANCE DATA

#### STANDARD

| LED PACKAGE       | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------------|------------------|---------|-----------------|
| <b>1x4</b>        |                  |         |                 |
| P18               | 1811             | 16      | 113.2           |
| P25               | 2503             | 24      | 104.3           |
| P53               | 5341             | 49      | 109.0           |
| <b>2x2</b>        |                  |         |                 |
| P18               | 1834             | 15      | 122.3           |
| P26               | 2604             | 24      | 108.5           |
| P55               | 5512             | 49      | 112.5           |
| <b>2x4</b>        |                  |         |                 |
| P31               | 3104             | 24      | 129.3           |
| P66               | 6609             | 49      | 134.9           |
| P122 <sup>1</sup> | 12227            | 100     | 122.3           |

#### TUNABLE WHITE

| LED PACKAGE       | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------------|------------------|---------|-----------------|
| <b>1x4</b>        |                  |         |                 |
| P18               | 1865             | 16      | 116.6           |
| P25               | 2577             | 24      | 107.4           |
| P53               | 5501             | 49      | 112.3           |
| <b>2x2</b>        |                  |         |                 |
| P18               | 1888             | 15      | 125.9           |
| P26               | 2682             | 24      | 111.8           |
| P55               | 5676             | 49      | 115.8           |
| <b>2x4</b>        |                  |         |                 |
| P31               | 3196             | 24      | 133.2           |
| P66               | 6806             | 49      | 138.9           |
| P122 <sup>1</sup> | 12592            | 100     | 125.9           |

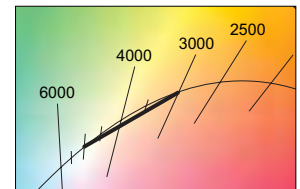
### MULTIPLIER TABLES

#### STANDARD

| CCT   | CONVERSION FACTOR |
|-------|-------------------|
| 2700K | 0.97              |
| 3000K | 0.99              |
| 3500K | 1.00              |
| 4000K | 1.03              |

#### TUNABLE WHITE

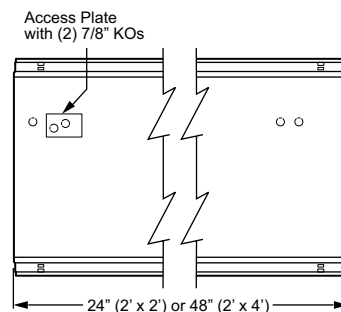
| CCT   | CONVERSION FACTOR |
|-------|-------------------|
| 3000K | 0.95              |
| 3500K | 0.98              |
| 4000K | 1.00              |
| 5000K | 0.96              |



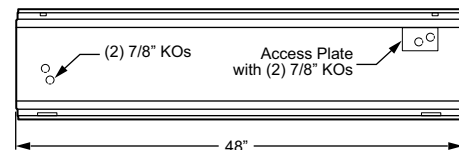
- <sup>1</sup> Fixture contains two nodes
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
  - Standard results based on 3500K standard, 80 CRI, actual lumens may vary +/-5%
  - Tunable white results based on 4000K standard, 80 CRI, actual lumens may vary +/-5%
  - Use multiplier table to calculate additional options.

### FIXTURE DETAILS

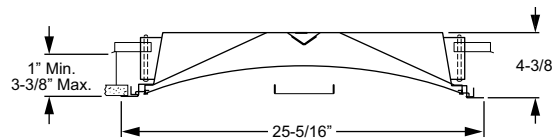
#### 2x2 | 2x4 BACK VIEW



#### 1x4 BACK VIEW

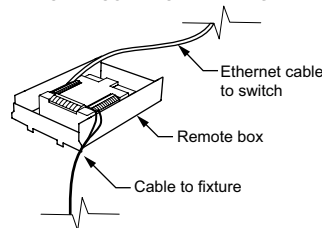


#### NEMA TYPE "F" INSTALLATION



**Note:** Maximum recommended ceiling opening is 24-3/8" x 24-38" for 2'x2' and 24-3/8" x 48-3/8" for 2'x4'. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

#### REMOTE MOUNT NODE DETAILS



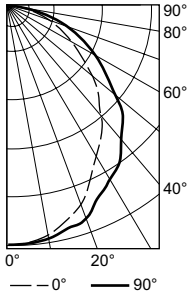
Includes 2' plenum rated 18ga. solid cable. Remote box can be installed in:

- Above ceiling grid
- Remote closet (within 100ft)
- Surface below ceiling

See [Technical Info](#) for dimension details.

**PHOTOMETRY**

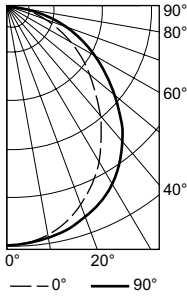
**AT3-24-P66/835-D** Total Luminaire Output: 6609 lumens; 49 Watts  
 Efficacy: 135 lm/W | 82 CRI; 3500K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2



| CANDLEPOWER DISTRIBUTION | Vertical Angle | Horizontal Angle |      |      | Zonal Lumens |
|--------------------------|----------------|------------------|------|------|--------------|
|                          |                | 0°               | 45°  | 90°  |              |
| 0                        | 2633           | 2633             | 2633 | 2633 |              |
| 5                        | 2619           | 2620             | 2622 | 249  |              |
| 15                       | 2472           | 2493             | 2526 | 703  |              |
| 25                       | 2138           | 2208             | 2292 | 1020 |              |
| 35                       | 1733           | 1854             | 1976 | 1162 |              |
| 45                       | 1396           | 1560             | 1664 | 1172 |              |
| 55                       | 965            | 1118             | 1189 | 987  |              |
| 65                       | 645            | 788              | 847  | 755  |              |
| 75                       | 336            | 460              | 460  | 450  |              |
| 85                       | 100            | 71               | 67   | 110  |              |
| 90                       | 0.             | 0.               | 0.   |      |              |

| LUMEN SUMMARY | Zone | Lumens | % Fixture |
|---------------|------|--------|-----------|
| 0 - 30        |      | 1972   | 30        |
| 0 - 40        |      | 3134   | 47        |
| 0 - 60        |      | 5294   | 80        |
| 0 - 90        |      | 6609   | 100.0     |
| 0 - 180       |      | 6609   | 100.0     |

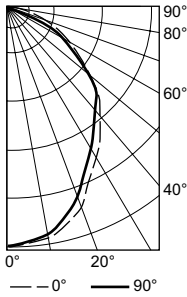
**AT3-22-P55/835-D** Total Luminaire Output: 5512 lumens; 49 Watts  
 Efficacy: 112 lm/W | 82 CRI; 3500K CCT | IES Spacing Criteria: End: 1.1, Across: 1.3, Diagonal: 1.2



| CANDLEPOWER DISTRIBUTION | Vertical Angle | Horizontal Angle |      |      | Zonal Lumens |
|--------------------------|----------------|------------------|------|------|--------------|
|                          |                | 0°               | 45°  | 90°  |              |
| 0                        | 2169           | 2169             | 2169 | 2169 |              |
| 5                        | 2165           | 2157             | 2153 | 205  |              |
| 15                       | 2044           | 2049             | 2087 | 580  |              |
| 25                       | 1800           | 1870             | 1956 | 863  |              |
| 35                       | 1509           | 1611             | 1721 | 1006 |              |
| 45                       | 1163           | 1266             | 1368 | 979  |              |
| 55                       | 830            | 937              | 1007 | 832  |              |
| 65                       | 540            | 632              | 694  | 618  |              |
| 75                       | 275            | 348              | 402  | 354  |              |
| 85                       | 50             | 44               | 42   | 74   |              |
| 90                       | 0.             | 0.               | 0.   |      |              |

| LUMEN SUMMARY | Zone | Lumens | % Fixture |
|---------------|------|--------|-----------|
| 0 - 30        |      | 1648   | 30        |
| 0 - 40        |      | 2654   | 48        |
| 0 - 60        |      | 4465   | 81        |
| 0 - 90        |      | 5512   | 100.0     |
| 0 - 180       |      | 5512   | 100.0     |

**AT3-14-P53/830** Total Luminaire Output: 5341 lumens; 49 Watts  
 Efficacy: 109 lm/W | 83 CRI; 3587K CCT | IES Spacing Criteria: End: 1.1, Across: 1.1, Diagonal: 1.1



| CANDLEPOWER DISTRIBUTION | Vertical Angle | Horizontal Angle |      |     | Zonal Lumens |
|--------------------------|----------------|------------------|------|-----|--------------|
|                          |                | 0°               | 45°  | 90° |              |
| 0                        | 2435           | 2435             | 2435 |     |              |
| 5                        | 2409           | 2403             | 2397 | 228 |              |
| 15                       | 2281           | 2249             | 2222 | 634 |              |
| 25                       | 1949           | 1891             | 1853 | 880 |              |
| 35                       | 1623           | 1561             | 1537 | 982 |              |
| 45                       | 1318           | 1272             | 1261 | 972 |              |
| 55                       | 909            | 887              | 853  | 792 |              |
| 65                       | 595            | 577              | 426  | 529 |              |
| 75                       | 290            | 207              | 189  | 256 |              |
| 85                       | 80             | 55               | 41   | 68  |              |
| 90                       | 0.             | 0.               | 0.   |     |              |

| LUMEN SUMMARY | Zone | Lumens | % Fixture |
|---------------|------|--------|-----------|
| 0 - 30        |      | 1742   | 33        |
| 0 - 40        |      | 2724   | 51        |
| 0 - 60        |      | 4488   | 84        |
| 0 - 90        |      | 5341   | 100.0     |
| 0 - 180       |      | 5341   | 100.0     |

