

# T5 LUMINOUS ACRYLIC FLAT PANEL

**FP**

**SUBMITTAL:**

**FP2 | FP4**

**JOB:**

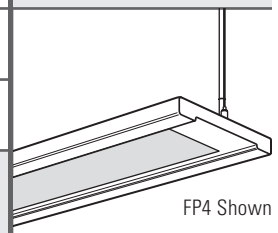
**TYPE:**

**VOLTAGE:**

EXAMPLE

**FP 4 - 4 - 2 54T5H - F - OPTIONS - EB2 - UNV**

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



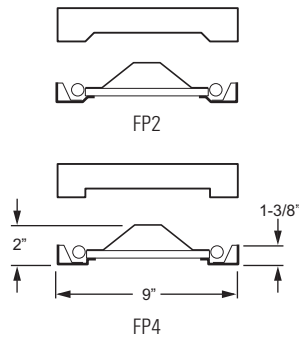
FP4 Shown

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## FEATURES

- ▶ **Up to 81.4% optical efficiency.**
- ▶ Lightly patterned acrylic captures and uniformly distributes light from T5 lamps concealed within the 1-3/8" deep housing.
- ▶ Contemporary design compliments modern environments.
- ▶ Die-formed end caps.
- ▶ Self-aligning joining method ensures straight continuous rows.
- ▶ Custom colors available – consult factory.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – Heavy-gauge die-formed C.R.S.

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

**Shielding** – Patterned acrylic, .375" thick.

**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, 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

**FP** T5 Luminous Acrylic Flat Panel

### FIXTURE PROFILE

**2** Beveled  
**4** Step-up

### NOMINAL LENGTH

**4** 4'  
**8** 8'

### TOTAL LAMPS

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

### LAMP WATTAGE/TYPE

**28T5S** 4', 28-watt T5 (1- or 2-lamp ballast[s] only)  
**54T5H** 4', 54-watt T5HO

### 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 **EM ballast** options consult factory.

### ACCESSORIES

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

### BALLAST TYPE

**Ballast size restricted** to maximum ballast cross-section of 1-1/4"H x 1-3/4"W.  
**EB2** 2-lamp electronic ballast  
**EB4** 4-lamp electronic ballast

### VOLTAGE

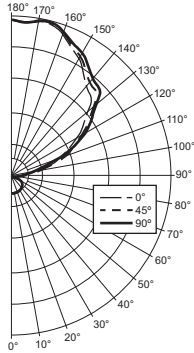
**120** 120V  
**277** 277V  
**UNV** 120-277V  
**347** 347V

PHOTOMETRY

Catalog #: FP4-4-254T5H

TEST REPORT INFORMATION

- ▶ Test Report #: 12389.0
- ▶ Date: 09/14/04
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle |       |       | Zonal Lumens |
|----------------|------------------|-------|-------|--------------|
|                | 0°               | 45°   | 90°   |              |
| 0°             | 236.             | 236.  | 236.  |              |
| 5°             | 237.             | 237.  | 237.  | 22.6         |
| 15°            | 222.             | 238.  | 225.  | 65.5         |
| 25°            | 201.             | 226.  | 210.  | 101.7        |
| 35°            | 200.             | 199.  | 209.  | 124.3        |
| 45°            | 160.             | 172.  | 172.  | 126.8        |
| 55°            | 108.             | 139.  | 127.  | 119.2        |
| 65°            | 80.              | 92.   | 102.  | 92.3         |
| 75°            | 39.              | 58.   | 61.   | 55.5         |
| 85°            | 2.               | 23.   | 35.   | 23.6         |
| 90°            | 0.               | 20.   | 29.   |              |
| 95°            | 102.             | 57.   | 57.   | 69.1         |
| 105°           | 452.             | 336.  | 212.  | 367.9        |
| 115°           | 888.             | 995.  | 924.  | 957.1        |
| 125°           | 1315.            | 1435. | 1485. | 1270.6       |
| 135°           | 1762.            | 1885. | 1950. | 1446.7       |
| 145°           | 1965.            | 2034. | 2106. | 1278.5       |
| 155°           | 2255.            | 2284. | 2331. | 1061.0       |
| 165°           | 2520.            | 2548. | 2551. | 720.3        |
| 175°           | 2492.            | 2490. | 2496. | 237.9        |
| 180°           | 2528.            | 2528. | 2528. |              |

LUMEN SUMMARY

| Zone                    | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30                  | 190.   | 1.9    | 2.3       |
| 0 - 40                  | 314.   | 3.1    | 3.9       |
| 0 - 60                  | 560.   | 5.6    | 6.9       |
| 0 - 90                  | 732.   | 7.3    | 9.0       |
| 90 - 120                | 1394.  | 13.9   | 17.1      |
| 90 - 130                | 2665.  | 26.6   | 32.7      |
| 90 - 150                | 5390.  | 53.9   | 66.2      |
| 90 - 180                | 7409.  | 74.1   | 91.0      |
| <b>Total Luminaire:</b> |        |        |           |
| 0 - 180                 | 8141.  | 81.4   | 100.0     |

Total Luminaire Optical Efficiency: **81.4%**  
Spacing Criteria: End = 1.3, Diagonal = 1.3, Across = 1.4

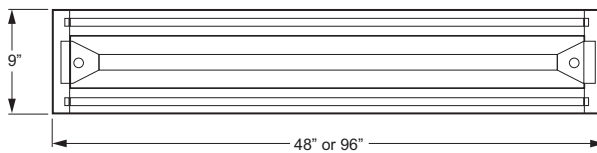
ZONAL CAVITY COEFFICIENTS

|                     | Ceiling |     |     | Wall |     |     | Floor |     |     |
|---------------------|---------|-----|-----|------|-----|-----|-------|-----|-----|
|                     | .80     | .70 | .50 | .30  | .20 | .10 | .80   | .70 | .50 |
| Room Cavity Ratio 0 | .79     | .79 | .79 | .69  | .69 | .69 | .49   | .49 | .49 |
| 1                   | .72     | .69 | .66 | .62  | .60 | .57 | .43   | .41 | .40 |
| 2                   | .66     | .60 | .55 | .57  | .52 | .48 | .37   | .35 | .33 |
| 3                   | .60     | .52 | .47 | .52  | .46 | .41 | .33   | .30 | .28 |
| 4                   | .54     | .46 | .40 | .47  | .40 | .35 | .29   | .26 | .23 |
| 5                   | .50     | .41 | .35 | .43  | .36 | .31 | .26   | .23 | .20 |
| 6                   | .46     | .37 | .31 | .40  | .32 | .27 | .23   | .20 | .17 |
| 7                   | .42     | .33 | .27 | .37  | .29 | .24 | .21   | .18 | .15 |
| 8                   | .39     | .30 | .24 | .34  | .26 | .21 | .19   | .16 | .13 |
| 9                   | .36     | .27 | .22 | .31  | .24 | .19 | .17   | .14 | .12 |
| 10                  | .34     | .25 | .20 | .29  | .22 | .17 | .16   | .13 | .11 |

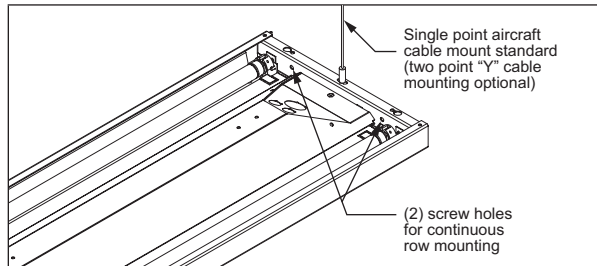
Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

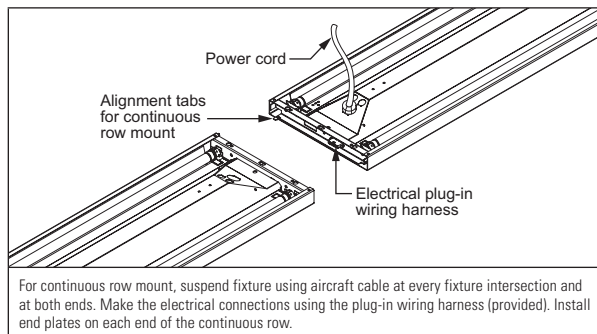
BACK VIEW



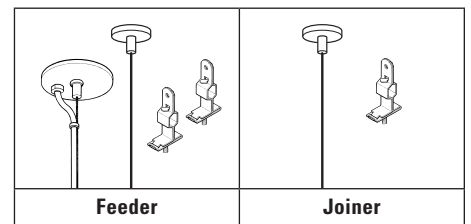
MOUNTING DETAILS



CONTINUOUS ROW DETAILS



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.