

2x2 | 2x4  
Shown with RA lens

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

**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
- Room-side access
- Ultra slim 2-3/8" for minimal plenum space
- Uniform ambient illumination
- Companion surface and retrofit kit preserve continuity, see [hew.com](http://hew.com)
- Maximize energy savings with efficacies up to 134 lm/W
- Rated for direct contact with insulation
- Heavy duty C.R.S. construction
- Made Right Here™ in the USA

**ORDERING EXAMPLE: PT - 2 4 - P65/835 - RA - OPTIONS - POE N**

**ORDERING INFO**

| SERIES | WIDTH               | LENGTH              | LUMENS <sup>[1]</sup> | CRI                 | CCT         | SHIELDING                              |  |  |
|--------|---------------------|---------------------|-----------------------|---------------------|-------------|--|--|--|
| PT     | 1 1' <sup>[2]</sup> | 2 2' <sup>[3]</sup> | 1x4                   | 8 80                | 27 2700K    | RA Diffuse ribbed acrylic              |  |  |
|        |                     |                     | P21 2,100lm           | 9 90 <sup>[4]</sup> | 30 3000K    | SA Square acrylic <sup>[5]</sup>       |  |  |
|        | 2 2'                | 4 4'                | P33 3,300lm           |                     | 35 3500K    |  |  |  |
|        |                     |                     | P65 6,500lm           |                     | 40 4000K    |  |  |  |
|        | 2x2                 |                     |                       | P22 2,200lm         |             | 50 5000K                               |  |  |
|        |                     |                     |                       | P31 3,100lm         |             | TW Tunable white (80 CRI, 3000K-5000K) |  |  |
|        |                     |                     |                       | P47 4,700lm         |             |  |  |  |
|        |                     |                     |                       | 2x4                 | P21 2,100lm |  |  |  |
|        |                     |                     |                       |                     | P33 3,300lm |  |  |  |
|        |                     |                     |                       |                     | P65 6,500lm |  |  |  |

**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

**OPTIONS <sup>[6]</sup>**

- EM/CP12** Remote mount 12-watt lota emergency LED battery <sup>[8]</sup>
- EQCLIPS** Earthquake clips <sup>[9]</sup>
- AMW** Anti-microbial white finish
- DFK-1248W** Drywall kit, 12" x 48", white
- DFK-2424W** Drywall kit, 24" x 24", white
- DFK-2448W** Drywall kit, 24" x 48", white

**CONTROL <sup>[7]</sup>**

- POE N** Power over Ethernet network node
- POE D** Power over Ethernet device node <sup>[10]</sup>

**SPECIFICATIONS**

- HOUSING/REFLECTOR** – Precision die-formed 22-gauge C.R.S.
- SHIELDING** – Diffuse ribbed acrylic.
- FINISH** – Highly reflective non-glare matte 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 board. L70 > 50,000 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" (1" nominal width grid system only). Drywall kit accessories available, ordered separately.
- LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**NOTES**

- Lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 4' length only.
- 2' width only.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- Increases lumen output by 3%.
- See [Technical Info](http://hew.com/poe) for Drywall Kit details. See [hew.com/poe](http://hew.com/poe) for compatible sensors and switches.
- For additional PoE info, see [hew.com/poe](http://hew.com/poe). 1' x 4' fixture requires remote mounting, see page 3 for REMOTE MOUNT DETAILS
- 1x4 fixture requires remote mounting, see page 3 for REMOTE MOUNT DETAILS.
- 4 per fixture
- Not available for fixtures over 40W.

**FIXTURE PERFORMANCE DATA**

**STANDARD**

|     | LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|-------------|------------------|---------|-----------------|
| 1x4 | P21         | 2143             | 16      | 133.9           |
|     | P33         | 3144             | 25      | 125.8           |
|     | P65         | 6550             | 50      | 131.0           |
| 2x2 | P22         | 2234             | 17      | 131.4           |
|     | P31         | 3140             | 25      | 125.6           |
|     | P47         | 4708             | 37      | 127.2           |
| 2x4 | P21         | 2143             | 16      | 133.9           |
|     | P31         | 3144             | 25      | 125.8           |
|     | P65         | 6550             | 50      | 131.0           |

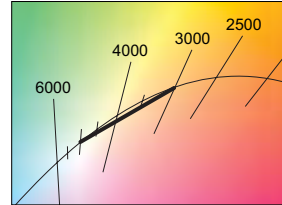
**TUNABLE WHITE**

|     | LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-----|-------------|------------------|---------|-----------------|
| 1x4 | P21         | 2207             | 16      | 137.9           |
|     | P33         | 3238             | 25      | 129.5           |
|     | P65         | 6746             | 50      | 134.9           |
| 2x2 | P22         | 2301             | 17      | 135.4           |
|     | P31         | 3234             | 25      | 129.4           |
|     | P47         | 4849             | 37      | 131.1           |
| 2x4 | P21         | 2207             | 16      | 137.9           |
|     | P31         | 3238             | 25      | 129.5           |
|     | P65         | 6746             | 50      | 134.9           |

**MULTIPLIER TABLES**

| STANDARD |       |                   |
|----------|-------|-------------------|
|          | CCT   | CONVERSION FACTOR |
| 80 CRI   | 2700K | 0.97              |
|          | 3000K | 0.99              |
|          | 3500K | 1.00              |
|          | 4000K | 1.03              |
|          | 5000K | 1.06              |
| 90 CRI   | 2700K | 0.82              |
|          | 3000K | 0.83              |
|          | 3500K | 0.84              |
|          | 4000K | 0.86              |
|          | 5000K | 0.90              |

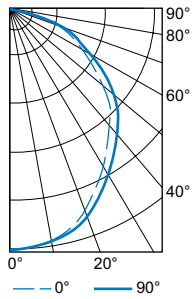
| TUNABLE WHITE |       |                   |
|---------------|-------|-------------------|
|               | CCT   | CONVERSION FACTOR |
| 80 CRI        | 3000K | 0.95              |
|               | 3500K | 0.98              |
|               | 4000K | 1.00              |
|               | 5000K | 0.96              |



- 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 tables to calculate additional options.

**PHOTOMETRY**

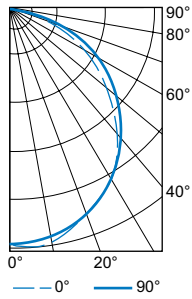
**PT-24-P65/835-RA** Total Luminaire Output: 6550 lumens; 50 Watts | Efficacy: 131 lm/W | 82.7 CRI; 3494K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE |      |      | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|--------------|
|                          |                | 0°               | 45°  | 90°  |              |
|                          | 0              | 2506             | 2506 | 2506 |              |
|                          | 5              | 2468             | 2464 | 2451 | 236          |
|                          | 15             | 2395             | 2403 | 2413 | 673          |
|                          | 25             | 2110             | 2139 | 2165 | 974          |
|                          | 35             | 1706             | 1760 | 1805 | 1098         |
|                          | 45             | 1387             | 1463 | 1538 | 1120         |
|                          | 55             | 1008             | 1104 | 1192 | 990          |
|                          | 65             | 653              | 774  | 879  | 764          |
|                          | 75             | 310              | 475  | 588  | 500          |
|                          | 85             | 63               | 210  | 241  | 196          |
|                          | 90             | 0                | 0    | 0    |              |

| LUMEN SUMMARY | ZONE    | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
|               | 0 - 30  | 1883   | 29        |
|               | 0 - 40  | 2981   | 46        |
|               | 0 - 60  | 5091   | 78        |
|               | 0 - 90  | 6550   | 100       |
|               | 0 - 180 | 6550   | 100       |

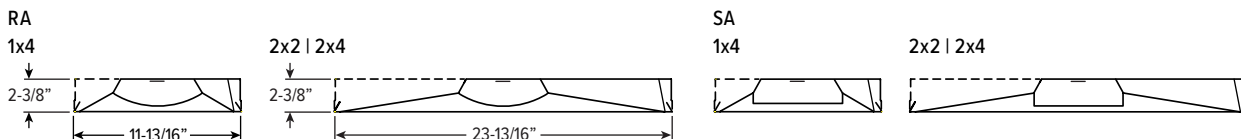
**PT-14-P65/835-RA** Total Luminaire Output: 6550 lumens; 50 Watts | Efficacy: 131 lm/W | 84.9 CRI; 3544K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE |      |      | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|--------------|
|                          |                | 0°               | 45°  | 90°  |              |
|                          | 0              | 2387             | 2387 | 2387 |              |
|                          | 5              | 2441             | 2414 | 2378 | 228          |
|                          | 15             | 2333             | 2327 | 2299 | 653          |
|                          | 25             | 2134             | 2144 | 2119 | 981          |
|                          | 35             | 1857             | 1881 | 1882 | 1166         |
|                          | 45             | 1481             | 1547 | 1569 | 1179         |
|                          | 55             | 1060             | 1165 | 1214 | 1035         |
|                          | 65             | 680              | 806  | 827  | 771          |
|                          | 75             | 302              | 424  | 442  | 430          |
|                          | 85             | 46               | 76   | 90   | 106          |
|                          | 90             | 0                | 0    | 0    |              |

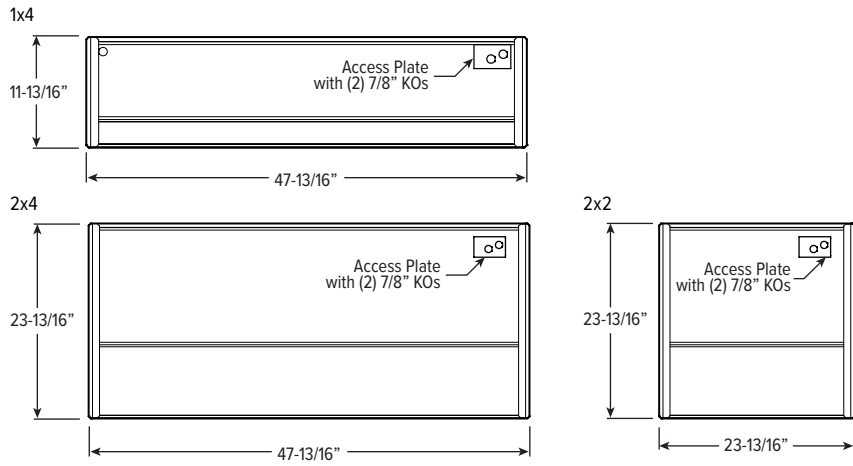
| LUMEN SUMMARY | ZONE    | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
|               | 0 - 30  | 1863   | 28        |
|               | 0 - 40  | 3029   | 46        |
|               | 0 - 60  | 5243   | 80        |
|               | 0 - 90  | 6550   | 100       |
|               | 0 - 180 | 6550   | 100       |

**CROSS SECTIONS**



**FIXTURE DETAILS**

**BACKVIEW**



**REMOTE MOUNT 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.

**NODE**

