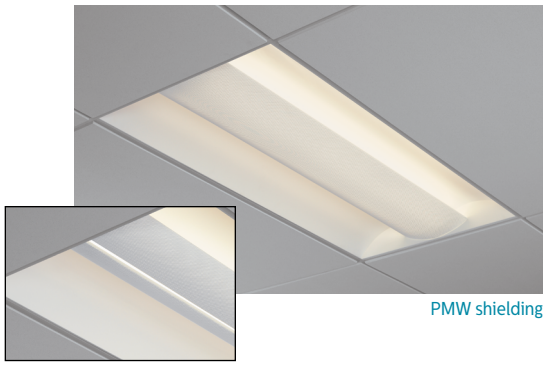
# Day-Brite CFI by signify

## Recessed

### Arioso shallow perf 2x4

T5 or T5HO



PMW shielding

SPMW shielding

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

The Day-Brite / CFI Arioso recessed shallow perf is ideal for shallow ceiling applications and offers simple clean lines in combination with soft natural illumination. With micro-perforated baskets and contoured seamless reflectors, this series focuses on providing smooth comfortable lighting while subtly complementing the space. Flexible enough to integrate with any architectural design, these luminaires provide a soft unassuming glow with comfortable illumination to optimize work and recreational activities.

## Ordering guide

**Example: 2AVEG228-PMW-UNV-1/2-EB-LPT835HL**

| Width | Family | Ceiling Type | No. of Lamps (not included) | Lamp Type | Shielding | Voltage | Options |
|---|---|---|---|---|---|---|---|
| 2 | AVE | G | | – | – | – | |
| **2** 2' | **AVE** Arioso recessed shallow perf | **G** Grid | **2**<br>**3** | **28** 28WT5 (46")<br>**54HO** 54WT5HO (46") | **PMW** Perforated metal w/ white overlay<br>**SPMW** 2-piece perforated metal with white overlay<br>**ACR** White opal acrylic diffuser | **120**<br>**277**<br>**347**<br>**UNV** Universal Voltage 120-277V | **1/2** One 2-lamp ballast<br>**1/3** One 3-lamp ballast<br>**1/21** 2-lamp and 1-lamp ballasts<br>**EB** Electronic ballast, <10% THD, std. ballast factor<br>**EBD7** Advance Mark 7 dimming ballast, 0-10V (low voltage) control<br>**EBDX** Advance Mark 10 dimming ballast, phase control<br>**EBD** Electronic dimming ballast, customer specified<br>**E7LP** LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V<br>**E6LP** LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V<br>**F1** 3/8" flex 3 wire, 18 gauge 6'<br>**F2** 3/8" flex 4 wire, 18 gauge 6'<br>**F2/5W** 3/8" flex, 5 wire 18 gauge 6'<br>**GLR** Fusing, fast blow<br>**LPT830** Installed T5/T5HO lamps, 80+ CRI, 3000K<br>**LPT835** Installed T5/T5HO lamps, 80+ CRI, 3500K<br>**LPT841** Installed T5/T5HO lamps, 80+ CRI, 4100K<br>**LPT830HL** Installed T5 hi lumen lamps, 80+ CRI, 3000K<br>**LPT835HL** Installed T5 hi lumen lamps, 80+ CRI, 3500K<br>**LPT841HL** Installed T5 hi lumen lamps, 80+ CRI, 4100K<br>**CHIC** Chicago plenum rated |

## Accessories (order separately)

- **AVHD** Hold down clips
- **FMA24** 2'x4' "F" mounting frame for NEMA "F" mounting

# 2AVEG Arioso recessed shallow perf 2x4

## T5 or T5HO

### Application

- Architectural recessed direct/indirect lighting for glare free illumination.
- Low profile reflector and lamp cover provide a sleek, modern appearance.
- Shallow housing requires only 3-5/8" of plenum space, great for shallow plenum applications.
- Housing edge design locates the bottom of the luminaire flush with the ceiling plane in standard grid (NEMA G) or screw slot (NEMA SS) applications.
- NOT suitable for flush mounting in narrow face grid (NEMA NFG) applications.
- Fully recessed mounting, suitable for row mounting.

### Construction/Finish

- Top reflector and end panels are formed together with no gaps.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Reflector features soft, high reflectance matte white finish that is applied after fabrication.
- Easy ballast access through lamp compartment.
- Optional hold down clips available (order separately: cat # AVHD).

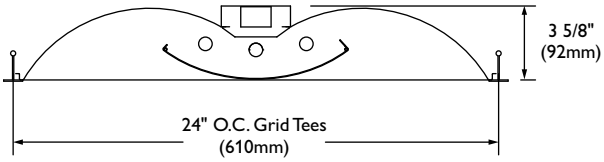
### Electrical

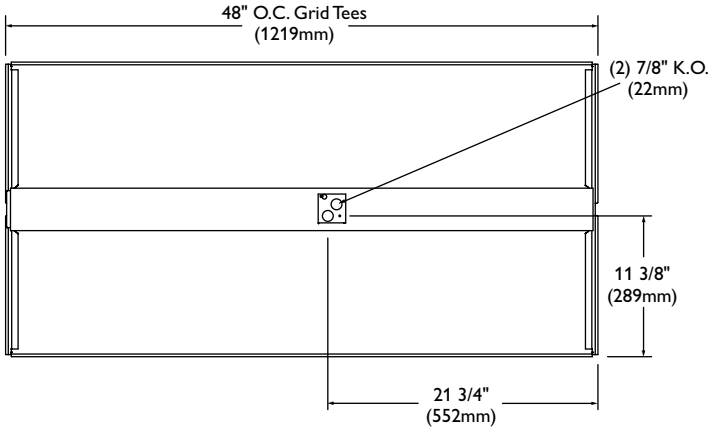
- cULus listed for damp locations.
- Self-contained fluorescent emergency power pack can be incorporated.

### Enclosure

- Choice of one-piece (PMW) or two-piece (SPMW) perforated lamp shields, or a white opal acrylic diffuser (ACR).
- Micro-perforated mesh lamp shields (PMW or SPMW models) or white opal diffuser provide soft awareness of light source.
- Soft white overlay on inside of micro-perforated mesh (PMW or SPMW models) or white opal diffuser conceals lamp image and balances between reflected and direct light.
- Swing down lamp shield for easy relamping.

### Dimensions



# 2AVEG Arioso recessed shallow perf 2x4

T5 or T5HO

## Photometry

### Arioso recessed shallow perf (PMW) 2x4 2 lamp T5

**Efficiency – 72.3%** **LER – 58** **TER – 50**

| | |
|---|---|
| **Catalog No.** | 2AVEG228-PMW-1/2-EB |
| **Test No.** | 27599 |
| **S/MH** | 1.3 |
| **Lamp Type** | 28WT5 |
| **Lumens/Lamp** | 2600 |
| **Ballast Factor** | 1.00 |
| **Input Watts** | 65 |

Comparative yearly lighting energy cost per 1000 lumens – **$4.14** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

#### Candlepower

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 1252 | 1252 | 1252 |
| **5** | 1252 | 1250 | 1237 |
| **10** | 1232 | 1235 | 1225 |
| **15** | 1199 | 1206 | 1202 |
| **20** | 1160 | 1175 | 1178 |
| **25** | 1108 | 1129 | 1142 |
| **30** | 1041 | 1077 | 1101 |
| **35** | 966 | 1015 | 1054 |
| **40** | 882 | 948 | 998 |
| **45** | 790 | 875 | 936 |
| **50** | 690 | 796 | 871 |
| **55** | 581 | 717 | 804 |
| **60** | 469 | 634 | 726 |
| **65** | 364 | 546 | 624 |
| **70** | 270 | 448 | 468 |
| **75** | 184 | 315 | 242 |
| **80** | 105 | 113 | 122 |
| **85** | 43 | 41 | 45 |

#### Light Distribution

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 979 | 18.8 | 26.0 |
| **0-40** | 1613 | 31.0 | 42.9 |
| **0-60** | 2913 | 56.0 | 77.4 |
| **0-90** | 3763 | 72.4 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 1503 | 1665 | 1781 |
| **55** | 1363 | 1682 | 1886 |
| **65** | 1159 | 1738 | 1987 |
| **75** | 957 | 1638 | 1258 |
| **85** | 664 | 633 | 695 |

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 85 | 85 | 85 | 83 | 83 | 83 | 80 | 80 |
| 1 | 79 | 75 | 71 | 77 | 72 | 70 | 69 | 68 |
| 2 | 70 | 65 | 59 | 68 | 64 | 58 | 60 | 56 |
| 3 | 65 | 56 | 51 | 63 | 56 | 50 | 54 | 48 |
| 4 | 58 | 50 | 44 | 56 | 48 | 42 | 46 | 41 |
| 5 | 54 | 45 | 38 | 53 | 44 | 38 | 41 | 36 |
| 6 | 50 | 40 | 34 | 48 | 40 | 33 | 38 | 33 |
| 7 | 46 | 35 | 29 | 45 | 35 | 29 | 34 | 28 |
| 8 | 42 | 33 | 27 | 41 | 33 | 27 | 32 | 26 |
| 9 | 40 | 29 | 23 | 39 | 29 | 23 | 28 | 23 |
| 10 | 38 | 28 | 22 | 36 | 28 | 22 | 27 | 22 |

### Arioso recessed shallow perf (PMW) 2x4 3 lamp T5

**Efficiency – 67.1%** **LER – 55** **TER – 47**

| | |
|---|---|
| **Catalog No.** | 2AVEG328-PMW-1/21-EB |
| **Test No.** | 27598 |
| **S/MH** | 1.3 |
| **Lamp Type** | 28WT5 |
| **Lumens/Lamp** | 2600 |
| **Ballast Factor** | 1.00 |
| **Input Watts** | 95 |

Comparative yearly lighting energy cost per 1000 lumens – **$4.36** based on 3000 hrs. and $.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

#### Candlepower

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 1782 | 1782 | 1782 |
| **5** | 1776 | 1782 | 1753 |
| **10** | 1749 | 1762 | 1736 |
| **15** | 1706 | 1724 | 1708 |
| **20** | 1647 | 1674 | 1668 |
| **25** | 1566 | 1606 | 1614 |
| **30** | 1474 | 1531 | 1548 |
| **35** | 1367 | 1437 | 1474 |
| **40** | 1243 | 1337 | 1391 |
| **45** | 1109 | 1228 | 1299 |
| **50** | 964 | 1111 | 1196 |
| **55** | 807 | 988 | 1091 |
| **60** | 655 | 866 | 972 |
| **65** | 502 | 735 | 818 |
| **70** | 366 | 589 | 611 |
| **75** | 246 | 408 | 315 |
| **80** | 139 | 152 | 165 |
| **85** | 53 | 56 | 60 |

#### Light Distribution

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 1394 | 17.9 | 26.6 |
| **0-40** | 2291 | 29.4 | 43.7 |
| **0-60** | 4100 | 52.6 | 78.3 |
| **0-90** | 5239 | 67.2 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 2110 | 2337 | 2472 |
| **55** | 1893 | 2318 | 2559 |
| **65** | 1598 | 2340 | 2604 |
| **75** | 1279 | 2121 | 1638 |
| **85** | 818 | 865 | 926 |

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 80 | 80 | 80 | 78 | 78 | 78 | 75 | 75 |
| 1 | 72 | 69 | 67 | 70 | 68 | 66 | 65 | 63 |
| 2 | 66 | 60 | 56 | 65 | 58 | 55 | 56 | 53 |
| 3 | 59 | 53 | 47 | 58 | 52 | 46 | 50 | 46 |
| 4 | 55 | 46 | 40 | 54 | 46 | 40 | 44 | 40 |
| 5 | 51 | 41 | 35 | 48 | 40 | 34 | 40 | 34 |
| 6 | 46 | 38 | 32 | 45 | 36 | 30 | 35 | 30 |
| 7 | 42 | 34 | 28 | 41 | 34 | 28 | 32 | 27 |
| 8 | 40 | 30 | 25 | 39 | 30 | 25 | 29 | 25 |
| 9 | 38 | 28 | 23 | 36 | 28 | 23 | 27 | 22 |
| 10 | 34 | 26 | 20 | 34 | 26 | 20 | 25 | 20 |

Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

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