

2 Lamp T5, T5HO, or CF TT5 Recessed Direct/Indirect

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.
- Models with emergency ballast or multiple ballasts require 5-1/4" of plenum space.
- Provides soft, uniform lighting without hot spots or dark areas.
- 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).

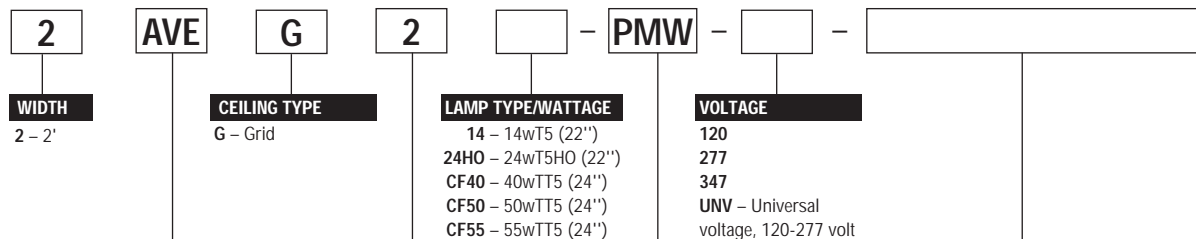
ELECTRICAL

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- UL listed for damp locations. C.S.A. certified optional.
- Self-contained fluorescent emergency power pack can be incorporated in some models, UL listed for dry locations.

ENCLOSURES

- Micro-perforated mesh lamp shield provides soft awareness of light source.
- Soft white overlay on inside of micro-perforated mesh conceals lamp image and balances between reflected and direct light.
- Swing down lamp shield for easy relamping.

CATALOG NUMBER



FIXTURE FAMILY

AVE - Arioso Essence

NO. OF LAMPS

(not included)
2

SHIELDING

PMW - Perforated Metal with
White Overlay

OPTIONS

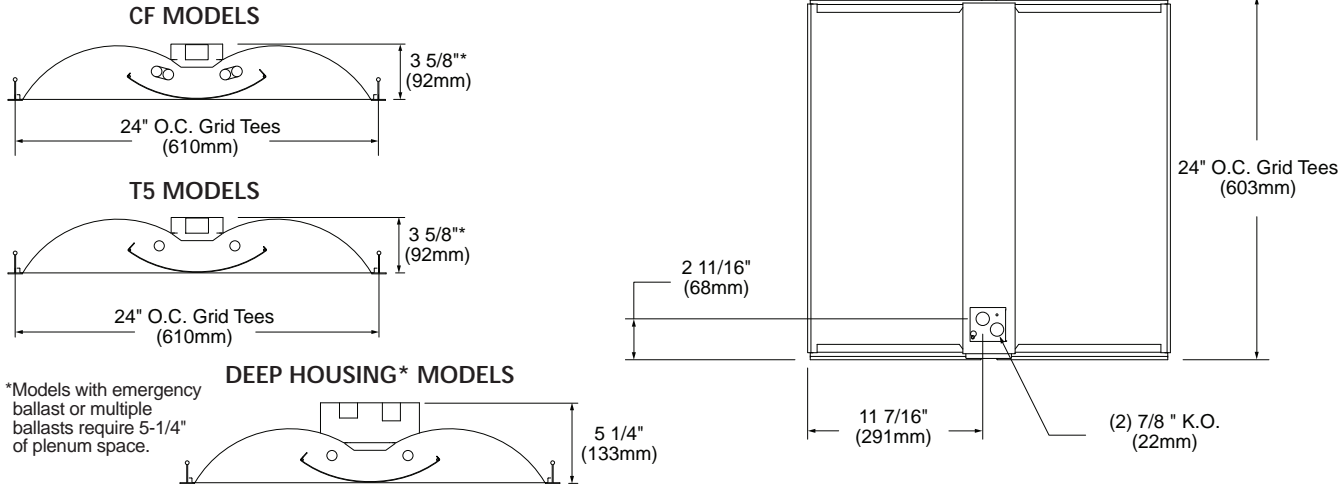
- CM - Canadian Market
- 1/2 - One 2-lamp ballast (electronic or non-standard)
- EB - Electronic ballast, <20% THD
- EB101 - CF40 Electronic ballast, instant start, <10% THD
- EB10R - Electronic ballast, program rapid start, <10% THD
- EBD - Electronic dimming ballast
- E1 - DEB-1 emerg. ballast, CF only, 350-450 lumens
- E7 - DEB-7 emerg. ballast, 390-700 lumens
- E5 - DEB-5 emerg. ballast, CF only, 900 lumens
- E5ST - DEB-5ST emerg. ballast with self test, CF only, 1100-1400 lumens
- F1 - Installed flex, 3/8" diameter, 18 gauge, 3 wire, 6'
- F2 - Installed flex, 3/8" diameter, 18 gauge, 4 wire, 6'
- GLR# - Fusing, fast blow (# = number of ballasts)
- LPT835 - Installed lamps, 80+ CRI, 3500K

JOB INFORMATION

0275.1-AR

Arioso® ESSENCE 2' x 2'

DIMENSIONS



PHOTOMETRIC DATA

CATALOG # 2AVEG2CF40-PMW-1/2-EB LAMPS = 40wT5 INPUT WATTS = 70
 TEST #27591 S/MH= 1.3 BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 47

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$5.11 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 59.1%

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1280 | 1280 | 1280 | |
| 5 | 1278 | 1272 | 1268 | |
| 10 | 1257 | 1255 | 1256 | |
| 15 | 1223 | 1228 | 1236 | |
| 20 | 1178 | 1191 | 1204 | |
| 25 | 1124 | 1144 | 1166 | |
| 30 | 1057 | 1086 | 1121 | |
| 35 | 977 | 1022 | 1065 | |
| 40 | 891 | 947 | 1006 | |
| 45 | 792 | 868 | 939 | |
| 50 | 689 | 784 | 869 | |
| 55 | 576 | 695 | 795 | |
| 60 | 459 | 605 | 715 | |
| 65 | 354 | 511 | 610 | |
| 70 | 259 | 411 | 463 | |
| 75 | 177 | 286 | 240 | |
| 80 | 102 | 112 | 114 | |
| 85 | 42 | 39 | 42 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | | | | |
|---|-----------------------------|------------------------------------|---------|---------|---------|----------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.75 3150 Lumens/Lamp very clean Room width divided by room height = 5 or more, 2 or 1 | | | | | | |
| Fixture Size & # of Lamps | Room Width Room Height = | Approx. Area (sq. ft.) per Fixture | | | | |
| | | 10 ft-c | 30 ft-c | 50 ft-c | 70 ft-c | 100 ft-c |
| 2' X 2' | 5 | - | 96 | 58 | 41 | - |
| 2 Lamp CF40 | 2 | - | 65 | 39 | - | - |
| perf. | 1 | 141 | 47 | - | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

| AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS | | | | |
|---|------|------|-------|--|
| ANGLE | END | 45° | CROSS | |
| 45 | 3014 | 3303 | 3573 | |
| 55 | 2702 | 3261 | 3730 | |
| 65 | 2254 | 3254 | 3884 | |
| 75 | 1840 | 2974 | 2495 | |
| 85 | 1297 | 1204 | 1297 | |

| TYPICAL V.C.P.'s | | | | |
|------------------|-----------------|-----------|----|----|
| Room Size | Mounting Height | | | |
| | Lengthwise | Crosswise | | |
| 30x30 | 49 | 52 | 45 | 47 |
| 40x40 | 50 | 50 | 47 | 47 |
| 60x30 | 54 | 55 | 51 | 52 |
| 60x60 | 51 | 50 | 49 | 47 |
| 100x100 | 54 | 52 | 53 | 51 |

| COEFFICIENT OF UTILIZATION | | | | | | | | | | | | |
|----------------------------|-----|----|----|----|----|----|----|----|----|----|----|--|
| pfc | pcc | pw | 20 | | | 70 | | | 50 | | | |
| | | | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | | |
| RCR | 0 | 69 | 69 | 69 | 68 | 68 | 68 | 66 | 66 | 66 | 66 | |
| 1 | 64 | 60 | 58 | 63 | 59 | 57 | 57 | 56 | 56 | 56 | 56 | |
| 2 | 57 | 53 | 48 | 56 | 52 | 48 | 50 | 46 | 46 | 46 | 46 | |
| 3 | 53 | 46 | 41 | 52 | 46 | 40 | 44 | 40 | 40 | 40 | 40 | |
| 4 | 48 | 40 | 35 | 46 | 40 | 35 | 39 | 34 | 34 | 34 | 34 | |
| 5 | 45 | 36 | 32 | 42 | 35 | 30 | 34 | 30 | 30 | 30 | 30 | |
| 6 | 40 | 33 | 28 | 40 | 33 | 28 | 32 | 27 | 27 | 27 | 27 | |
| 7 | 38 | 29 | 25 | 36 | 29 | 25 | 28 | 23 | 23 | 23 | 23 | |
| 8 | 34 | 27 | 22 | 34 | 27 | 22 | 26 | 22 | 22 | 22 | 22 | |
| 9 | 33 | 25 | 20 | 32 | 25 | 20 | 23 | 20 | 20 | 20 | 20 | |
| 10 | 30 | 23 | 17 | 29 | 23 | 17 | 22 | 17 | 17 | 17 | 17 | |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 996 | 15.8 | 26.8 |
| 0-40 | 1635 | 25.9 | 43.9 |
| 0-60 | 2920 | 46.3 | 78.5 |
| 0-90 | 3721 | 59.1 | 100.0 |

LLF = .75 LLF = LIGHT LOSS FACTOR LLD = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.90 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & 40WTT5 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 2AVEG224HO-PMW-1/2-EB LAMPS = F24T5HO INPUT WATTS = 52
 TEST #27586 S/MH= 1.3 BALLAST = ELECTRONIC BALLAST FACTOR = 1.00

LER = 45

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$5.33 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 66.7%

| CANDLEPOWER | | | | |
|-------------|-----|-----|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 800 | 800 | 800 | |
| 5 | 801 | 794 | 798 | |
| 10 | 789 | 784 | 789 | |
| 15 | 768 | 768 | 776 | |
| 20 | 741 | 744 | 758 | |
| 25 | 708 | 716 | 735 | |
| 30 | 666 | 682 | 707 | |
| 35 | 616 | 641 | 674 | |
| 40 | 561 | 597 | 638 | |
| 45 | 501 | 549 | 597 | |
| 50 | 435 | 497 | 553 | |
| 55 | 366 | 442 | 507 | |
| 60 | 293 | 384 | 456 | |
| 65 | 223 | 326 | 389 | |
| 70 | 165 | 262 | 294 | |
| 75 | 109 | 176 | 159 | |
| 80 | 63 | 70 | 73 | |
| 85 | 23 | 25 | 26 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | | | | |
|---|-----------------------------|------------------------------------|---------|---------|---------|----------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.89 1760 Lumens/Lamp very clean Room width divided by room height = 5 or more, 2 or 1 | | | | | | |
| Fixture Size & # of Lamps | Room Width Room Height = | Approx. Area (sq. ft.) per Fixture | | | | |
| | | 10 ft-c | 30 ft-c | 50 ft-c | 70 ft-c | 100 ft-c |
| 2' X 2' | 5 | - | 72 | 43 | 31 | - |
| 2 Lamp T5HO | 2 | 146 | 49 | - | - | - |
| perf. | 1 | 106 | 35 | - | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

| AVERAGE LUMINANCE CD/SQ.M WITH 1760 LUMEN LAMPS | | | | |
|---|------|------|-------|--|
| ANGLE | END | 45° | CROSS | |
| 45 | 1907 | 2089 | 2272 | |
| 55 | 1717 | 2074 | 2379 | |
| 65 | 1420 | 2076 | 2477 | |
| 75 | 1133 | 1830 | 1653 | |
| 85 | 710 | 772 | 803 | |

| TYPICAL V.C.P.'s | | | | |
|------------------|-----------------|-----------|----|----|
| Room Size | Mounting Height | | | |
| | Lengthwise | Crosswise | | |
| 30x30 | 60 | 63 | 56 | 58 |
| 40x40 | 61 | 61 | 57 | 57 |
| 60x30 | 64 | 65 | 61 | 62 |
| 60x60 | 62 | 61 | 59 | 58 |
| 100x100 | 65 | 64 | 63 | 61 |

| COEFFICIENT OF UTILIZATION | | | | | | | | | | | | |
|----------------------------|-----|----|----|----|----|----|----|----|----|----|----|--|
| pfc | pcc | pw | 20 | | | 70 | | | 50 | | | |
| | | | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | | |
| RCR | 0 | 79 | 79 | 79 | 78 | 78 | 78 | 73 | 73 | 73 | 73 | |
| 1 | 72 | 68 | 67 | 70 | 68 | 65 | 65 | 63 | 63 | 63 | 63 | |
| 2 | 66 | 59 | 56 | 64 | 58 | 55 | 56 | 53 | 53 | 53 | 53 | |
| 3 | 59 | 53 | 46 | 57 | 52 | 46 | 50 | 45 | 45 | 45 | 45 | |
| 4 | 55 | 46 | 40 | 53 | 46 | 40 | 44 | 39 | 39 | 39 | 39 | |
| 5 | 50 | 41 | 35 | 48 | 40 | 34 | 39 | 34 | 34 | 34 | 34 | |
| 6 | 46 | 36 | 30 | 45 | 36 | 30 | 35 | 29 | 29 | 29 | 29 | |
| 7 | 42 | 34 | 28 | 41 | 33 | 28 | 32 | 27 | 27 | 27 | 27 | |
| 8 | 40 | 30 | 25 | 39 | 29 | 25 | 28 | 25 | 25 | 25 | 25 | |
| 9 | 36 | 28 | 23 | 35 | 28 | 23 | 27 | 22 | 22 | 22 | 22 | |
| 10 | 34 | 26 | 20 | 34 | 26 | 20 | 25 | 20 | 20 | 20 | 20 | |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 624 | 17.7 | 26.6 |
| 0-40 | 1020 | 29.1 | 43.7 |
| 0-60 | 1840 | 52.3 | 78.4 |
| 0-90 | 2347 | 66.7 | 100.0 |

LLF = .89 LLF = LIGHT LOSS FACTOR LLD = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.95 @ 40% RATED LAMP LIFE BF = 1.00 ELECTRONIC BALLAST & T5HO LAMP (RELAMP AT 70% LAMP LIFE)

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