

**2, 3 or 4 Lamp
T5, T8, or CF TT5
Recessed Direct/Indirect**

APPLICATION

- Architectural recessed direct/indirect lighting for glare-free illumination.
- Suitable for grid inverted T (Nema “G”) ceilings. Flange type ceilings (Nema “F”) require independently mounted flange kits (FMA).
- 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.
- Soft white baked enamel finish.
- Easy ballast access through lamp compartment.
- Optional hold down clips available (order separately: cat # AVHD).

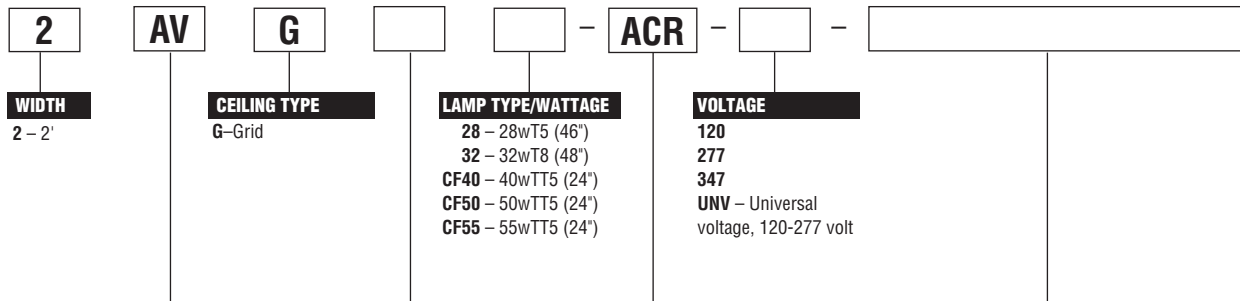
ELECTRICAL

- 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.

ENCLOSURES

- White opal acrylic diffuser provides soft awareness of light source and balances between reflected and direct light.
- Swing down lamp shield for easy relamping.

CATALOG NUMBER



FIXTURE FAMILY
AV - Arioso

NO. OF LAMPS
(not included)
2 (T5 and T8 only)
3 (T5 and T8 only)
4 (CF only)

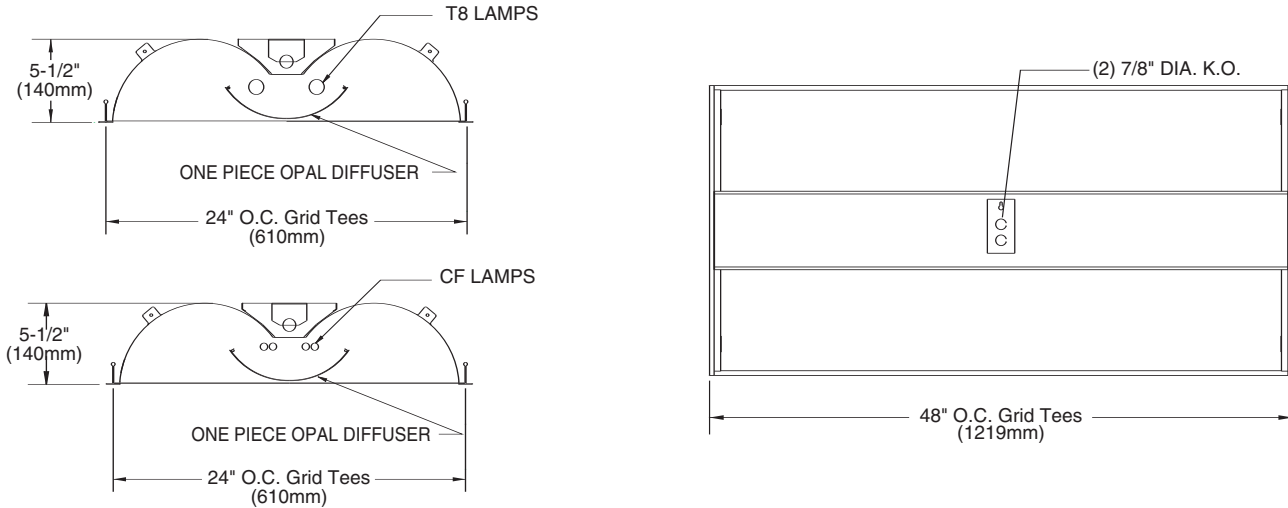
SHIELDING
ACR - White opal acrylic diffuser

OPTIONS

- 1/2 - One 2-lamp ballast (electronic or non-standard)
- 1/3 - One 3-lamp ballast (electronic or non-standard)
- 1/21 - 2-lamp & 1-lamp ballasts (electronic or non-standard)
- 2/2 - Two 2-lamp ballasts (electronic or non-standard)
- EB - Electronic ballast, <20% THD
- EB10I - T8 Electronic ballast, instant start, <10% THD
- EB10R - Electronic ballast, program rapid start, <10% THD
- EBD - Electronic dimming ballast
- E1 - DEB-1 emerg. ballast (T8 or CF only), 350-450 lumens (UL dry loc.)
- E7 - DEB-7 emerg. ballast, 390-700 lumens (UL dry loc.)
- E5 - DEB-5 emerg. ballast (T8 or CF only), 1100-1400 lumens (UL dry loc.)
- E5ST - DEB-5ST emerg. ballast with self test, 1100-1400 lumens (UL dry loc.)
- 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)
- LPT735 - Installed T8 lamps, 70+ CRI, 3500K
- LPT835 - Installed T8/T5/T5HO/CF lamps, 80+ CRI, 3500K

See section 1600-OA for option information.

DIMENSIONS



PHOTOMETRIC DATA

CATALOG # 2AVG232-ACR-1/2-EB
TEST #26728 S/MH= 1.3

LAMPS = F32T8
BALLAST = ELECTRONIC BALLAST FACTOR = .88

INPUT WATTS = 59

LER = 68

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 80.0%

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1434 | 1434 | 1434 | |
| 5 | 1438 | 1431 | 1414 | |
| 10 | 1420 | 1416 | 1402 | |
| 15 | 1392 | 1390 | 1379 | |
| 20 | 1351 | 1354 | 1346 | |
| 25 | 1303 | 1309 | 1310 | |
| 30 | 1240 | 1254 | 1262 | |
| 35 | 1168 | 1190 | 1207 | |
| 40 | 1086 | 1119 | 1141 | |
| 45 | 995 | 1040 | 1073 | |
| 50 | 895 | 955 | 995 | |
| 55 | 788 | 860 | 908 | |
| 60 | 674 | 763 | 807 | |
| 65 | 552 | 654 | 683 | |
| 70 | 428 | 531 | 523 | |
| 75 | 305 | 383 | 383 | |
| 80 | 189 | 237 | 233 | |
| 85 | 82 | 93 | 87 | |

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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 4' | 5 | - | 118 | 71 | 50 | 35 |
| 2 Lamp T8 | 2 | - | 78 | 47 | 34 | - |
| Acrylic | 1 | - | 57 | 34 | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

| ANGLE | END | 45° | CROSS |
|-------|------|------|-------|
| 45 | 1893 | 1979 | 2042 |
| 55 | 1848 | 2017 | 2130 |
| 65 | 1757 | 2082 | 2174 |
| 75 | 1586 | 1991 | 1991 |
| 85 | 1266 | 1436 | 1343 |

TYPICAL V.C.P.'s

| Room Size | Mounting Height | | | |
|-----------|-----------------|-----------|----|----|
| | Lengthwise | Crosswise | | |
| 30x30 | 54 | 59 | 52 | 57 |
| 40x40 | 52 | 55 | 50 | 53 |
| 60x30 | 57 | 61 | 56 | 59 |
| 60x60 | 51 | 53 | 50 | 51 |
| 100x100 | 52 | 52 | 52 | 51 |

COEFFICIENT OF UTILIZATION

| pfc cc pw RCR | 20 | | 70 | | 50 | |
|------------------------|----|----|----|----|----|----|
| | 70 | 50 | 30 | 70 | 50 | 30 |
| 0 | 94 | 94 | 94 | 93 | 93 | 89 |
| 1 | 85 | 81 | 79 | 83 | 80 | 77 |
| 2 | 78 | 70 | 65 | 76 | 69 | 64 |
| 3 | 70 | 61 | 55 | 68 | 60 | 54 |
| 4 | 65 | 55 | 46 | 63 | 54 | 46 |
| 5 | 58 | 48 | 40 | 57 | 47 | 40 |
| 6 | 55 | 44 | 35 | 53 | 42 | 35 |
| 7 | 51 | 39 | 32 | 48 | 39 | 32 |
| 8 | 46 | 35 | 28 | 46 | 34 | 28 |
| 9 | 44 | 33 | 26 | 42 | 32 | 26 |
| 10 | 40 | 29 | 23 | 40 | 29 | 23 |

LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1130 | 19.8 | 24.8 |
| 0-40 | 1874 | 32.9 | 41.1 |
| 0-60 | 3437 | 60.3 | 75.4 |
| 0-90 | 4559 | 80.0 | 100.0 |

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 2AVG332-ACR-1/3-EB
TEST #26750 S/MH= 1.3

LAMPS = F32T8
BALLAST = ELECTRONIC BALLAST FACTOR = .88

INPUT WATTS = 85

LER = 71

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.38 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 80.4%

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 2192 | 2192 | 2192 | |
| 5 | 2199 | 2186 | 2176 | |
| 10 | 2174 | 2161 | 2150 | |
| 15 | 2126 | 2119 | 2114 | |
| 20 | 2066 | 2066 | 2066 | |
| 25 | 1986 | 1991 | 2001 | |
| 30 | 1890 | 1905 | 1923 | |
| 35 | 1784 | 1803 | 1830 | |
| 40 | 1659 | 1695 | 1723 | |
| 45 | 1523 | 1570 | 1608 | |
| 50 | 1369 | 1435 | 1478 | |
| 55 | 1205 | 1284 | 1340 | |
| 60 | 1027 | 1131 | 1184 | |
| 65 | 848 | 964 | 995 | |
| 70 | 658 | 778 | 762 | |
| 75 | 468 | 561 | 570 | |
| 80 | 288 | 356 | 362 | |
| 85 | 128 | 153 | 140 | |

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 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 4' | 5 | - | - | 107 | 76 | 53 |
| 3 Lamp T8 | 2 | - | 118 | 71 | 51 | 36 |
| Acrylic | 1 | - | 86 | 51 | 37 | - |

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS

| ANGLE | END | 45° | CROSS |
|-------|------|------|-------|
| 45 | 2898 | 2987 | 3060 |
| 55 | 2827 | 3012 | 3143 |
| 65 | 2700 | 3069 | 3168 |
| 75 | 2433 | 2916 | 2963 |
| 85 | 1976 | 2362 | 2161 |

TYPICAL V.C.P.'s

| Room Size | Mounting Height | | | |
|-----------|-----------------|-----------|----|----|
| | Lengthwise | Crosswise | | |
| 30x30 | 45 | 50 | 43 | 48 |
| 40x40 | 43 | 46 | 41 | 44 |
| 60x30 | 48 | 52 | 46 | 50 |
| 60x60 | 41 | 43 | 40 | 41 |
| 100x100 | 42 | 42 | 42 | 41 |

COEFFICIENT OF UTILIZATION

| pfc cc pw RCR | 20 | | 70 | | 50 | |
|------------------------|----|----|----|----|----|----|
| | 70 | 50 | 30 | 70 | 50 | 30 |
| 0 | 95 | 95 | 95 | 93 | 93 | 89 |
| 1 | 86 | 82 | 79 | 84 | 81 | 78 |
| 2 | 79 | 71 | 66 | 76 | 69 | 65 |
| 3 | 70 | 63 | 56 | 68 | 60 | 55 |
| 4 | 65 | 55 | 47 | 63 | 54 | 46 |
| 5 | 59 | 48 | 41 | 57 | 47 | 40 |
| 6 | 55 | 44 | 36 | 54 | 42 | 35 |
| 7 | 51 | 40 | 33 | 50 | 39 | 32 |
| 8 | 46 | 35 | 28 | 46 | 35 | 28 |
| 9 | 44 | 33 | 27 | 42 | 33 | 26 |
| 10 | 41 | 30 | 23 | 40 | 29 | 23 |

LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1725 | 20.2 | 25.1 |
| 0-40 | 2855 | 33.4 | 41.5 |
| 0-60 | 5205 | 60.9 | 75.7 |
| 0-90 | 6875 | 80.4 | 100.0 |

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)