

**6 Lamp 36 Cell**  
**8 Lamp 64 Cell**  
**T8 or T12**

**APPLICATION**

- Low-brightness troffer for most ceilings:
  - Grid inverted T (NEMA "G")
  - Flange-type for concealed mechanical suspension (NEMA "F")
  - Modular and "Z" spline (NEMA "M/Z")
  - Screw Slot; with louvers at ceiling plane (NEMA "SS")
- Designed for air supply/return through side slots and/or heat transfer. Select the appropriate catalog no. for air function desired. Air boots by others.
- Push-down air pattern control blade (fixtures shipped with blade covering side slots).
- Excellent visual comfort and inconspicuous appearance.
- Static, air handling and heat-transfer models. Air boots by others.

**CONSTRUCTION/FINISH**

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Flat black finish inside perimeter reveal for "floating door" appearance.
- Grid clips (Catalog #GCP) must be ordered as an option if desired.

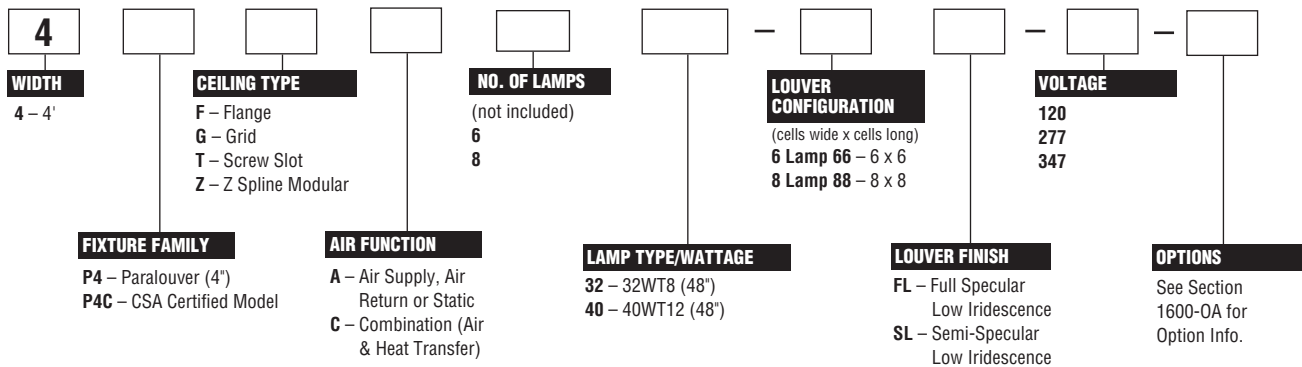
**ELECTRICAL**

- Class P, HPF, CBM certified 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 packs can be incorporated.

**ENCLOSURES**

- Parabolic-shaped louvers closely controlled for uniform low-brightness appearance, and interlocked to avoid vibration.
- Semi-specular low iridescence is standard, specular low iridescence is optional.
- 36 Cell: Lengthwise shielding is 30°. Crosswise shielding is 46°.
- 64 Cell: Lengthwise shielding is 38°. Crosswise shielding is 53°.
- Bottom aluminum flange has mitered corners and fits flush with ceiling.
- Can be hinged and latched from either side.
- Shipped with plastic film to keep out construction dirt.

**CATALOG NUMBER**



**NOTES:**

- With generic Electronic Ballasts (Brand selected by Day-Brite)  
 Suffix Catalog # with **Ballast Quantity** – / – **EB Lamps Per Ballast**.

**Example: -2/3-EB** = Two 3 Lamp Electronic Ballasts.

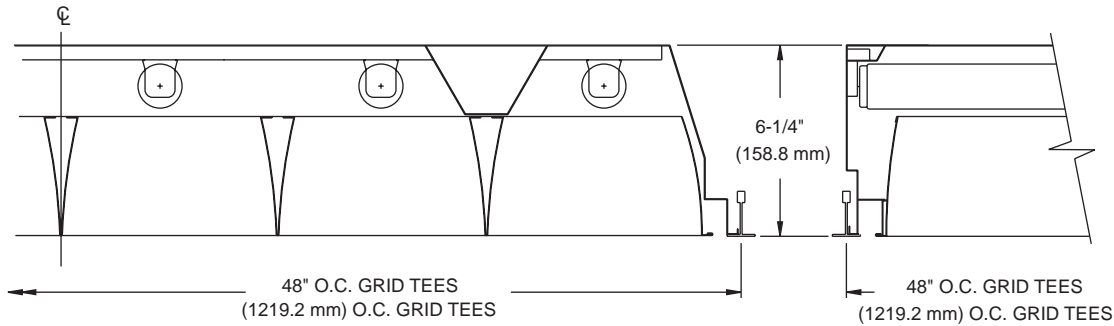
**Example: -1/42-EB** = One 4 Lamp Electronic Ballast and One 2 Lamp Electronic Ballast.

**Example: -2/4-EB** = Two 4 Lamp Electronic Ballasts.

# 4' x 4' 6 LAMP 36 CELL



## DIMENSIONS



### PHOTOMETRIC DATA

CATALOG # 4P4GA632-66SL-2/3-EB  
TEST #16166 S/MH= 1.6

LAMPS = F32 T8  
BALLAST = ELECTRONIC

INPUT WATTS = 174  
BALLAST FACTOR = .93

LER = FP-65

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.69 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 69.8%

| CANDLEPOWER |      |      |       |  |
|-------------|------|------|-------|--|
| Angle       | End  | 45   | Cross |  |
| 0           | 4670 | 4670 | 4670  |  |
| 5           | 4635 | 4671 | 4701  |  |
| 10          | 4534 | 4663 | 4782  |  |
| 15          | 4404 | 4647 | 4898  |  |
| 20          | 4234 | 4647 | 5087  |  |
| 25          | 4029 | 4648 | 5289  |  |
| 30          | 3813 | 4638 | 5472  |  |
| 35          | 3549 | 4614 | 5377  |  |
| 40          | 3242 | 4395 | 4724  |  |
| 45          | 2904 | 3765 | 3883  |  |
| 50          | 2471 | 2916 | 2842  |  |
| 55          | 1934 | 1967 | 2146  |  |
| 60          | 1122 | 1108 | 1936  |  |
| 65          | 323  | 466  | 902   |  |
| 70          | 99   | 145  | 154   |  |
| 75          | 58   | 61   | 58    |  |
| 80          | 36   | 43   | 28    |  |
| 85          | 20   | 24   | 12    |  |

### MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.77 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

| Fixture Size & # of Lamps | Room Width<br>Room Height = | Approx. Area (sq. ft.) per Fixture |         |         |         |          |
|---------------------------|-----------------------------|------------------------------------|---------|---------|---------|----------|
|                           |                             | 10 ft-c                            | 30 ft-c | 50 ft-c | 70 ft-c | 100 ft-c |
| 4' X 4'                   | 5                           | -                                  | -       | -       | 143     | 100      |
| 6 Lamp                    | 2                           | -                                  | -       | 144     | 103     | 72       |
|                           | 1                           | -                                  | -       | 106     | 76      | 53       |

\*Observe Fixture S/MH Requirements for Specific Applications

### AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

| ANGLE | END  | 45°  | CROSS |
|-------|------|------|-------|
| 45    | 3144 | 4076 | 4203  |
| 55    | 2581 | 2625 | 2864  |
| 65    | 585  | 844  | 1634  |
| 75    | 172  | 180  | 172   |
| 85    | 176  | 211  | 105   |

### TYPICAL V.C.P.'s Room Mounting Height

| Room Size | Lengthwise |    | Crosswise |    |
|-----------|------------|----|-----------|----|
|           | 8.5        | 10 | 8.5       | 10 |
| 30x30     | 88         | 84 | 86        | 81 |
| 40x40     | 91         | 88 | 89        | 86 |
| 60x30     | 92         | 89 | 90        | 87 |
| 60x60     | 92         | 90 | 91        | 88 |
| 100x100   | 92         | 91 | 93        | 92 |

### COEFFICIENT OF UTILIZATION

| p/c<br>pcc<br>pw | 20 |    | 70 |    | 50 |    |
|------------------|----|----|----|----|----|----|
|                  | 70 | 50 | 30 | 70 | 50 | 30 |
| RCR              |    |    |    |    |    |    |
| 0                | 82 | 82 | 82 | 81 | 81 | 78 |
| 1                | 78 | 75 | 72 | 76 | 72 | 70 |
| 2                | 71 | 67 | 63 | 69 | 66 | 61 |
| 3                | 66 | 59 | 55 | 65 | 58 | 54 |
| 4                | 60 | 54 | 47 | 59 | 53 | 47 |
| 5                | 56 | 47 | 42 | 55 | 47 | 41 |
| 6                | 52 | 44 | 38 | 51 | 42 | 36 |
| 7                | 47 | 40 | 34 | 46 | 39 | 34 |
| 8                | 45 | 35 | 30 | 44 | 35 | 29 |
| 9                | 41 | 33 | 28 | 40 | 33 | 27 |
| 10               | 39 | 30 | 25 | 39 | 29 | 25 |

### LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30    | 3921   | 22.5   | 32.3      |
| 0-40    | 6772   | 38.9   | 55.8      |
| 0-60    | 11461  | 65.9   | 94.4      |
| 0-90    | 12144  | 69.8   | 100.0     |

LLF = .77 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.88 @ 40% RATED LAMP LIFE BF = .93 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

### PHOTOMETRIC DATA

CATALOG # 4P4GA632-66FL-2/3-EB  
TEST #16167 S/MH= 1.6

LAMPS = F32 T8  
BALLAST = ELECTRONIC

INPUT WATTS = 175  
BALLAST FACTOR = .93

LER = FP-67

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.58 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 72.9%

| CANDLEPOWER |      |      |       |  |
|-------------|------|------|-------|--|
| Angle       | End  | 45   | Cross |  |
| 0           | 4710 | 4710 | 4710  |  |
| 5           | 4686 | 4706 | 4742  |  |
| 10          | 4599 | 4712 | 4811  |  |
| 15          | 4472 | 4696 | 4933  |  |
| 20          | 4289 | 4690 | 5131  |  |
| 25          | 4095 | 4743 | 5328  |  |
| 30          | 3857 | 4772 | 5830  |  |
| 35          | 3584 | 4781 | 5843  |  |
| 40          | 3307 | 5116 | 4994  |  |
| 45          | 2951 | 4802 | 3642  |  |
| 50          | 2497 | 3182 | 2688  |  |
| 55          | 2014 | 2189 | 2377  |  |
| 60          | 1398 | 1563 | 1540  |  |
| 65          | 417  | 331  | 727   |  |
| 70          | 50   | 49   | 43    |  |
| 75          | 31   | 29   | 17    |  |
| 80          | 26   | 25   | 10    |  |
| 85          | 20   | 22   | 7     |  |

### MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.77 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

| Fixture Size & # of Lamps | Room Width<br>Room Height = | Approx. Area (sq. ft.) per Fixture |         |         |         |          |
|---------------------------|-----------------------------|------------------------------------|---------|---------|---------|----------|
|                           |                             | 10 ft-c                            | 30 ft-c | 50 ft-c | 70 ft-c | 100 ft-c |
| 4' X 4'                   | 5                           | -                                  | -       | -       | 150     | 105      |
| 6 Lamp                    | 2                           | -                                  | -       | 150     | 107     | 75       |
|                           | 1                           | -                                  | -       | 110     | 79      | 55       |

\*Observe Fixture S/MH Requirements for Specific Applications

### AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS

| ANGLE | END  | 45°  | CROSS |
|-------|------|------|-------|
| 45    | 3194 | 5198 | 3942  |
| 55    | 2688 | 2921 | 3172  |
| 65    | 755  | 599  | 1317  |
| 75    | 92   | 86   | 50    |
| 85    | 176  | 193  | 61    |

### TYPICAL V.C.P.'s Room Mounting Height

| Room Size | Lengthwise |    | Crosswise |    |
|-----------|------------|----|-----------|----|
|           | 8.5        | 10 | 8.5       | 10 |
| 30x30     | 90         | 85 | 90        | 84 |
| 40x40     | 93         | 90 | 94        | 90 |
| 60x30     | 94         | 91 | 94        | 90 |
| 60x60     | 93         | 91 | 95        | 93 |
| 100x100   | 94         | 93 | 97        | 95 |

### COEFFICIENT OF UTILIZATION

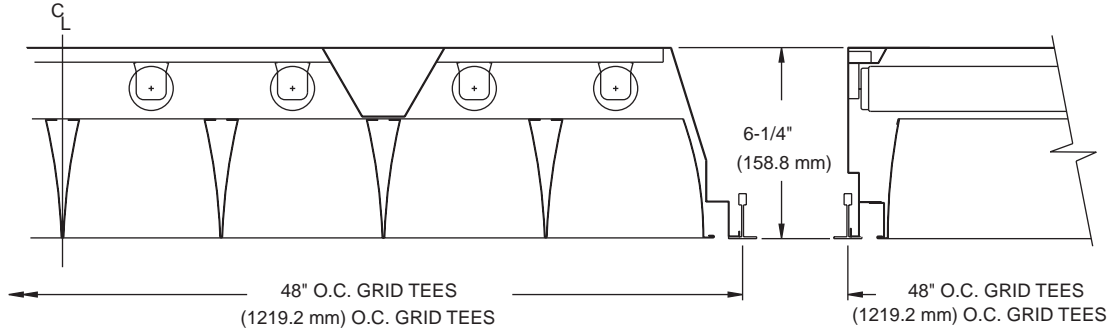
| p/c<br>pcc<br>pw | 20 |    | 70 |    | 50 |    |
|------------------|----|----|----|----|----|----|
|                  | 70 | 50 | 30 | 70 | 50 | 30 |
| RCR              |    |    |    |    |    |    |
| 0                | 86 | 86 | 86 | 84 | 84 | 81 |
| 1                | 81 | 78 | 76 | 79 | 77 | 73 |
| 2                | 75 | 69 | 66 | 72 | 68 | 63 |
| 3                | 68 | 63 | 57 | 67 | 60 | 55 |
| 4                | 64 | 56 | 50 | 61 | 55 | 50 |
| 5                | 58 | 50 | 44 | 56 | 50 | 44 |
| 6                | 54 | 45 | 39 | 53 | 45 | 39 |
| 7                | 50 | 40 | 34 | 48 | 40 | 34 |
| 8                | 46 | 38 | 32 | 46 | 36 | 32 |
| 9                | 44 | 34 | 28 | 42 | 34 | 28 |
| 10               | 40 | 32 | 26 | 40 | 30 | 26 |

### LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30    | 3970   | 22.8   | 31.3      |
| 0-40    | 6986   | 40.2   | 55.1      |
| 0-60    | 12084  | 69.4   | 95.3      |
| 0-90    | 12678  | 72.9   | 100.0     |

LLF = .77 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.88 @ 40% RATED LAMP LIFE BF = .93 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

**DIMENSIONS**



**PHOTOMETRIC DATA**

**CATALOG #** 4P4GA832-88SL-2/4-EB  
**TEST #**16161 **S/MH=** 1.3

**LAMPS =** F32 T8  
**BALLAST =** ELECTRONIC

**INPUT WATTS =** 222  
**BALLAST FACTOR =** .91

**LER = FP-59**

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$4.07** BASED ON 3000 HRS. AND \$.08 PER KWH.

**FIXTURE EFFICIENCY=** 61.8%

| CANDLEPOWER |      |      |       |
|-------------|------|------|-------|
| Angle       | End  | 45   | Cross |
| 0           | 6550 | 6550 | 6550  |
| 5           | 6527 | 6537 | 6609  |
| 10          | 6354 | 6573 | 6816  |
| 15          | 6141 | 6593 | 7005  |
| 20          | 5909 | 6562 | 7179  |
| 25          | 5616 | 6500 | 7371  |
| 30          | 5303 | 6416 | 6748  |
| 35          | 4923 | 5938 | 5452  |
| 40          | 4480 | 4840 | 4308  |
| 45          | 3864 | 3671 | 3677  |
| 50          | 3089 | 2886 | 3320  |
| 55          | 2183 | 2225 | 2814  |
| 60          | 921  | 996  | 1057  |
| 65          | 289  | 310  | 344   |
| 70          | 138  | 145  | 150   |
| 75          | 51   | 76   | 67    |
| 80          | 49   | 46   | 31    |
| 85          | 31   | 26   | 17    |

**MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\***

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

| Fixture Size & # of Lamps | Room Width<br>Room Height = | Approx. Area (sq. ft.) per Fixture |         |         |         |
|---------------------------|-----------------------------|------------------------------------|---------|---------|---------|
|                           |                             | 10 ft-c                            | 30 ft-c | 50 ft-c | 70 ft-c |
| 4' X 4'<br>8 Lamp         | 5<br>2<br>1                 | -                                  | -       | -       | 117     |
|                           |                             | -                                  | -       | 122     | 86      |
|                           |                             | -                                  | 129     | 92      | 64      |

\*Observe Fixture S/MH Requirements for Specific Applications

**COEFFICIENT OF UTILIZATION**

| pfc<br>pcc<br>pw<br>RCR | 20 |    | 70 |    | 50 |    |
|-------------------------|----|----|----|----|----|----|
|                         | 70 | 50 | 30 | 70 | 50 | 30 |
| 0                       | 73 | 73 | 73 | 71 | 71 | 68 |
| 1                       | 68 | 67 | 65 | 67 | 65 | 64 |
| 2                       | 64 | 59 | 56 | 63 | 58 | 56 |
| 3                       | 58 | 54 | 50 | 57 | 53 | 52 |
| 4                       | 55 | 48 | 44 | 54 | 47 | 44 |
| 5                       | 51 | 44 | 40 | 50 | 44 | 39 |
| 6                       | 47 | 40 | 35 | 46 | 40 | 34 |
| 7                       | 44 | 36 | 32 | 42 | 35 | 32 |
| 8                       | 40 | 34 | 28 | 40 | 33 | 28 |
| 9                       | 39 | 30 | 27 | 38 | 30 | 26 |
| 10                      | 35 | 28 | 23 | 35 | 28 | 23 |

**AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS**

| ANGLE | END  | 45°  | CROSS |
|-------|------|------|-------|
| 45    | 4183 | 3974 | 3980  |
| 55    | 2913 | 2969 | 3755  |
| 65    | 523  | 561  | 623   |
| 75    | 151  | 225  | 198   |
| 85    | 272  | 228  | 149   |

**TYPICAL V.C.P.'s**

| Room Size | Mounting Height |           |
|-----------|-----------------|-----------|
|           | Lengthwise      | Crosswise |
|           | 8.5             | 10        |
| 30x30     | 90              | 87        |
| 40x40     | 92              | 89        |
| 60x60     | 93              | 91        |
| 80x80     | 92              | 90        |
| 100x100   | 92              | 91        |

**LIGHT DISTRIBUTION**

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30    | 5500   | 23.7   | 38.4      |
| 0-40    | 8933   | 38.5   | 62.3      |
| 0-60    | 13867  | 59.8   | 96.7      |
| 0-90    | 14338  | 61.8   | 100.0     |

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.88 @ 40% RATED LAMP LIFE BF = .91 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

**PHOTOMETRIC DATA**

**CATALOG #** 4P4GA832-88FL-2/4-EB  
**TEST #**16160 **S/MH=** 1.4

**LAMPS =** F32 T8  
**BALLAST =** ELECTRONIC

**INPUT WATTS =** 219  
**BALLAST FACTOR =** .91

**LER = FP-63**

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$3.81** BASED ON 3000 HRS. AND \$.08 PER KWH.

**FIXTURE EFFICIENCY=** 65.5%

| CANDLEPOWER |      |      |       |
|-------------|------|------|-------|
| Angle       | End  | 45   | Cross |
| 0           | 6573 | 6573 | 6573  |
| 5           | 6543 | 6582 | 6694  |
| 10          | 6410 | 6669 | 6889  |
| 15          | 6219 | 6763 | 7126  |
| 20          | 5997 | 6782 | 7496  |
| 25          | 5734 | 6829 | 8265  |
| 30          | 5440 | 7209 | 7725  |
| 35          | 5069 | 7021 | 5815  |
| 40          | 4628 | 5577 | 4394  |
| 45          | 4072 | 4073 | 3812  |
| 50          | 3322 | 3264 | 3507  |
| 55          | 2148 | 2753 | 3692  |
| 60          | 265  | 405  | 697   |
| 65          | 73   | 85   | 71    |
| 70          | 44   | 55   | 32    |
| 75          | 33   | 36   | 15    |
| 80          | 31   | 28   | 10    |
| 85          | 23   | 20   | 7     |

**MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture\***

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2900 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

| Fixture Size & # of Lamps | Room Width<br>Room Height = | Approx. Area (sq. ft.) per Fixture |         |         |         |
|---------------------------|-----------------------------|------------------------------------|---------|---------|---------|
|                           |                             | 10 ft-c                            | 30 ft-c | 50 ft-c | 70 ft-c |
| 4' X 4'<br>8 Lamp         | 5<br>2<br>1                 | -                                  | -       | -       | 124     |
|                           |                             | -                                  | -       | 130     | 91      |
|                           |                             | -                                  | 137     | 98      | 69      |

\*Observe Fixture S/MH Requirements for Specific Applications

**COEFFICIENT OF UTILIZATION**

| pfc<br>pcc<br>pw<br>RCR | 20 |    | 70 |    | 50 |    |
|-------------------------|----|----|----|----|----|----|
|                         | 70 | 50 | 30 | 70 | 50 | 30 |
| 0                       | 78 | 78 | 78 | 76 | 76 | 72 |
| 1                       | 72 | 70 | 68 | 71 | 68 | 67 |
| 2                       | 68 | 64 | 60 | 67 | 63 | 60 |
| 3                       | 63 | 57 | 53 | 61 | 56 | 53 |
| 4                       | 58 | 52 | 46 | 56 | 51 | 46 |
| 5                       | 54 | 46 | 41 | 53 | 46 | 41 |
| 6                       | 51 | 42 | 38 | 48 | 41 | 38 |
| 7                       | 46 | 39 | 34 | 46 | 39 | 34 |
| 8                       | 44 | 35 | 30 | 42 | 35 | 30 |
| 9                       | 40 | 33 | 28 | 40 | 33 | 28 |
| 10                      | 39 | 30 | 26 | 38 | 29 | 25 |

**AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS**

| ANGLE | END  | 45°  | CROSS |
|-------|------|------|-------|
| 45    | 4408 | 4409 | 4126  |
| 55    | 2866 | 3674 | 4927  |
| 65    | 132  | 154  | 129   |
| 75    | 98   | 106  | 44    |
| 85    | 202  | 176  | 61    |

**TYPICAL V.C.P.'s**

| Room Size | Mounting Height |           |
|-----------|-----------------|-----------|
|           | Lengthwise      | Crosswise |
|           | 8.5             | 10        |
| 30x30     | 95              | 91        |
| 40x40     | 96              | 93        |
| 60x60     | 97              | 94        |
| 80x80     | 96              | 94        |
| 100x100   | 95              | 94        |

**LIGHT DISTRIBUTION**

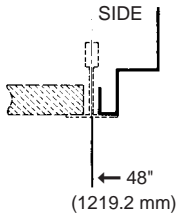
| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30    | 5765   | 24.9   | 38.0      |
| 0-40    | 9563   | 41.2   | 63.0      |
| 0-60    | 15000  | 64.7   | 98.8      |
| 0-90    | 15186  | 65.5   | 100.0     |

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.88 @ 40% RATED LAMP LIFE BF = .91 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

**4** **P4** **G** **A** **6** **32**

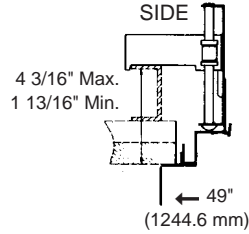
CEILING TYPE

**G = GRID (NEMA G)**



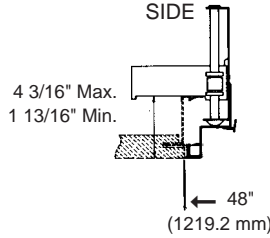
(NEMA Type G)  
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 48" x 48" spacing.

**F = FLANGE (NEMA F)**



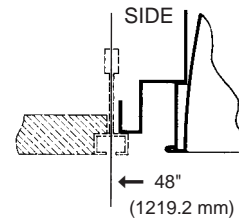
(NEMA Type F)  
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4 3/16" max. and 1 13/16" min.

**Z = (NEMA M/Z) MODULAR AND "Z" SPLINE**



(NEMA M/Z)  
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4 3/16" max. and 1 13/16" min.

**T = SCREW SLOT (NEMA SS)**



Louvered fixture with louvers at the ceiling plane.  
(NEMA Type SS)  
Typical Screw Slot Ceiling System. Bottom of louver is flush with ceiling plane.