

1' x 4' 1' x 8'
2 Lamp
T8 or T12
12 or 16 Cell

These fixtures meet the basic requirements of IESNA-RP1 for use in spaces containing Video Display Terminals

APPLICATION

- For Surface Mounting Requirements with Parabolic louvered appearance and performance.
- Provides excellent control of light distribution with reduced direct glare and good shielding angles for superior visual comfort.
- May also be stem mounted (at four corners).

CONSTRUCTION/FINISH

- Housing is a one piece welded assembly for structural rigidity.
- 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.

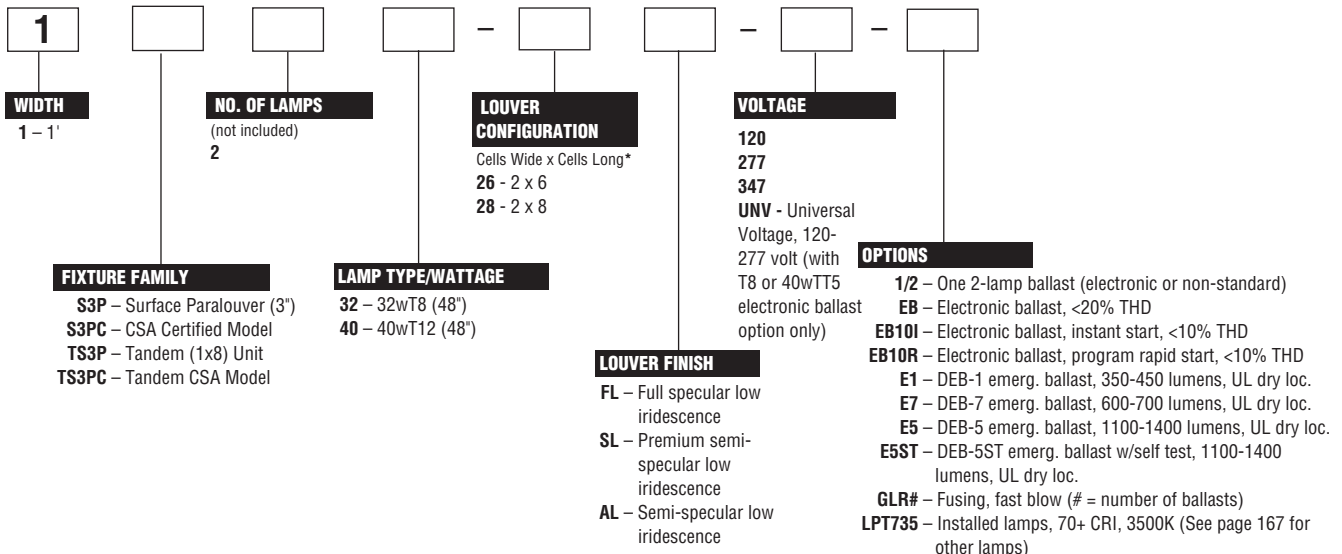
ELECTRICAL

- Class P, HPF, CBM certified ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- UL listed for direct mounting on low density ceilings and 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, champagne gold and white louvers are optional.
- Lengthwise shielding is 23°, and crosswise shielding is 51° on 12 cell louver.
- Lengthwise shielding is 30°, and crosswise shielding is 51° on 16 cell louver.
- Black finish makes spring latches inconspicuous.
- Can be hinged and latched from either side.
- Shipped with plastic film to keep out construction dirt.

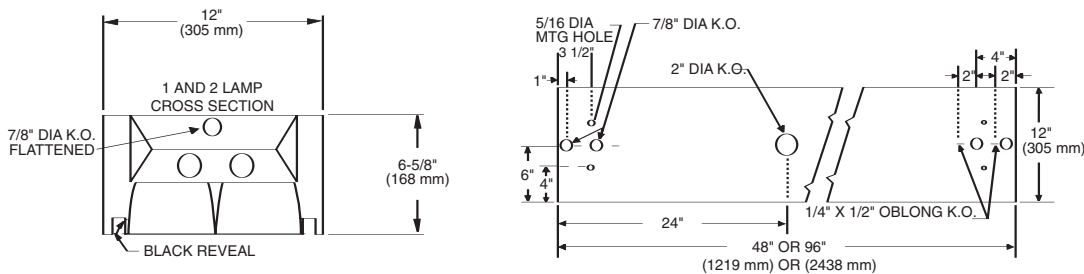
CATALOG NUMBER



1' x 4' 1' x 8' 12 or 16 CELL



DIMENSIONS



PHOTOMETRIC DATA

CATALOG # 1S3P232-28SL-1/2-EB
TEST #15841 S/MH= 1.3

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 60
BALLAST FACTOR = .92

LER = FP-58

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.14 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 65.4%

| CANDLEPOWER | | | |
|-------------|------|------|-------|
| Angle | End | 45 | Cross |
| 0 | 1584 | 1584 | 1584 |
| 5 | 1587 | 1592 | 1599 |
| 10 | 1555 | 1614 | 1678 |
| 15 | 1511 | 1666 | 1828 |
| 20 | 1452 | 1744 | 1978 |
| 25 | 1383 | 1811 | 1960 |
| 30 | 1306 | 1789 | 1682 |
| 35 | 1215 | 1597 | 1221 |
| 40 | 1111 | 1248 | 942 |
| 45 | 992 | 909 | 887 |
| 50 | 839 | 772 | 998 |
| 55 | 656 | 667 | 827 |
| 60 | 332 | 369 | 223 |
| 65 | 48 | 78 | 68 |
| 70 | 19 | 26 | 30 |
| 75 | 9 | 12 | 14 |
| 80 | 5 | 6 | 6 |
| 85 | 2 | 2 | 2 |

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 2900 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 |
| 1' X 4' | 5 | - | 104 | 62 | 45 | 31 |
| 2 Lamp | 2 | - | 76 | 45 | 32 | - |
| | 1 | - | 57 | 34 | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

| AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS | | | |
|---|------|------|-------|
| ANGLE | END | 45° | CROSS |
| 45 | 5108 | 4681 | 4568 |
| 55 | 4164 | 4234 | 5250 |
| 65 | 414 | 672 | 586 |
| 75 | 127 | 169 | 197 |
| 85 | 84 | 84 | 84 |

| Room Size | Typical V.C.P.'s Mounting Height | |
|-----------|-------------------------------------|-----------|
| | Lengthwise | Crosswise |
| 30x30 | 8.5 | 10 |
| 40x40 | 8.5 | 10 |
| 60x30 | 8.5 | 10 |
| 60x60 | 8.5 | 10 |
| 100x100 | 8.5 | 10 |

COEFFICIENT OF UTILIZATION

| pfc pcc pw RCR | 20 | | | | 70 | | | | 50 | | | | |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 |
| 0 | 78 | 78 | 78 | 78 | 76 | 76 | 76 | 76 | 72 | 72 | 72 | 72 | 72 |
| 1 | 72 | 70 | 68 | 70 | 68 | 67 | 67 | 67 | 65 | 65 | 65 | 65 | 65 |
| 2 | 68 | 64 | 59 | 66 | 61 | 58 | 58 | 59 | 56 | 56 | 56 | 56 | 56 |
| 3 | 63 | 56 | 53 | 60 | 56 | 52 | 54 | 51 | 51 | 51 | 51 | 51 | 51 |
| 4 | 57 | 51 | 46 | 56 | 51 | 46 | 48 | 45 | 45 | 45 | 45 | 45 | 45 |
| 5 | 54 | 46 | 40 | 53 | 46 | 40 | 45 | 40 | 40 | 40 | 40 | 40 | 40 |
| 6 | 50 | 41 | 36 | 48 | 41 | 36 | 40 | 35 | 35 | 35 | 35 | 35 | 35 |
| 7 | 46 | 39 | 33 | 45 | 38 | 33 | 36 | 33 | 36 | 33 | 36 | 33 | 33 |
| 8 | 42 | 34 | 29 | 41 | 34 | 29 | 34 | 29 | 34 | 29 | 34 | 29 | 29 |
| 9 | 40 | 33 | 28 | 40 | 32 | 27 | 30 | 27 | 30 | 27 | 30 | 27 | 27 |
| 10 | 38 | 29 | 25 | 36 | 29 | 25 | 28 | 25 | 28 | 25 | 28 | 25 | 25 |

LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1423 | 24.5 | 37.5 |
| 0-40 | 2297 | 39.6 | 60.5 |
| 0-60 | 3673 | 63.3 | 96.8 |
| 0-90 | 3794 | 65.4 | 100.0 |

LLF = .76 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 = 0.92 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 1S3P232-28FL-1/2-EB
TEST #15840 S/MH= 1.3

LAMPS = F32 T8
BALLAST = ELECTRONIC

INPUT WATTS = 60
BALLAST FACTOR = .92

LER = FP-60

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.00 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 68.0%

| CANDLEPOWER | | | |
|-------------|------|------|-------|
| Angle | End | 45 | Cross |
| 0 | 1578 | 1578 | 1578 |
| 5 | 1576 | 1587 | 1594 |
| 10 | 1545 | 1616 | 1688 |
| 15 | 1501 | 1681 | 1886 |
| 20 | 1443 | 1803 | 2106 |
| 25 | 1375 | 1932 | 2155 |
| 30 | 1297 | 1962 | 1862 |
| 35 | 1210 | 1768 | 1234 |
| 40 | 1110 | 1363 | 902 |
| 45 | 995 | 925 | 842 |
| 50 | 838 | 803 | 1133 |
| 55 | 659 | 784 | 965 |
| 60 | 318 | 358 | 122 |
| 65 | 33 | 24 | 11 |
| 70 | 6 | 6 | 5 |
| 75 | 3 | 3 | 3 |
| 80 | 2 | 2 | 2 |
| 85 | 1 | 1 | 1 |

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.76 2900 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 |
| 1' X 4' | 5 | - | 108 | 65 | 46 | 32 |
| 2 Lamp | 2 | - | 79 | 47 | 34 | - |
| | 1 | - | 59 | 35 | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

| AVERAGE LUMINANCE CD/SQ.M WITH 2900 LUMEN LAMPS | | | |
|---|------|------|-------|
| ANGLE | END | 45° | CROSS |
| 45 | 5124 | 4763 | 4336 |
| 55 | 4183 | 4977 | 6126 |
| 65 | 284 | 207 | 95 |
| 75 | 42 | 42 | 42 |
| 85 | 42 | 42 | 42 |

| Room Size | Typical V.C.P.'s Mounting Height | |
|-----------|-------------------------------------|-----------|
| | Lengthwise | Crosswise |
| 30x30 | 9.3 | 8.5 |
| 40x40 | 9.5 | 9.6 |
| 60x30 | 9.5 | 9.6 |
| 60x60 | 9.7 | 9.3 |
| 100x100 | 9.8 | 9.6 |

COEFFICIENT OF UTILIZATION

| pfc pcc pw RCR | 20 | | | | 70 | | | | 50 | | | | |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 |
| 0 | 81 | 81 | 81 | 79 | 79 | 79 | 76 | 76 | 76 | 76 | 76 | 76 | 76 |
| 1 | 76 | 73 | 70 | 73 | 71 | 69 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| 2 | 70 | 66 | 63 | 68 | 65 | 61 | 63 | 59 | 63 | 59 | 59 | 59 | 59 |
| 3 | 65 | 59 | 55 | 64 | 58 | 54 | 56 | 53 | 56 | 53 | 53 | 53 | 53 |
| 4 | 60 | 54 | 48 | 58 | 53 | 47 | 51 | 46 | 51 | 46 | 46 | 46 | 46 |
| 5 | 56 | 48 | 42 | 55 | 47 | 42 | 46 | 41 | 46 | 41 | 41 | 41 | 41 |
| 6 | 52 | 44 | 39 | 51 | 42 | 38 | 41 | 38 | 41 | 38 | 38 | 38 | 38 |
| 7 | 47 | 40 | 34 | 46 | 40 | 34 | 39 | 34 | 39 | 34 | 34 | 34 | 34 |
| 8 | 45 | 36 | 30 | 44 | 35 | 30 | 34 | 30 | 34 | 30 | 30 | 30 | 30 |
| 9 | 41 | 34 | 28 | 40 | 33 | 28 | 33 | 28 | 33 | 28 | 28 | 28 | 28 |
| 10 | 40 | 30 | 26 | 39 | 30 | 26 | 29 | 26 | 29 | 26 | 26 | 26 | 26 |

LIGHT DISTRIBUTION

| DEGREES | LUMENS | % LAMP | % FIXTURE |
|---------|--------|--------|-----------|
| 0-30 | 1476 | 25.5 | 37.4 |
| 0-40 | 2402 | 41.4 | 60.9 |
| 0-60 | 3873 | 66.8 | 98.2 |
| 0-90 | 3945 | 68.0 | 100.0 |

LLF = .76 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 = .92 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

921.1-SS

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