

**1 or 2 Lamp
T5, T5HO, or T8**

APPLICATION

Subtle enclosure curves provide architectural styling to complement any space. Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort. Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare. Ideal for modern offices, schools and retail environments. Excellent optical efficiency and luminaire efficacy provide significant energy savings. Many ballast/lamp systems are available, providing flexibility to tailor the luminaire to specific applications. Step dimming ballasts can be switched to less than 50% input power for energy savings to meet most energy codes while maintaining symmetrical illumination. Specific models are available for Grid, Flange, Z-spline/Modular, or Screw Slot ceiling systems. Designed for air supply/return through side slots in reveal. See sheet 518.1-AH for air flow data.

Suitable for end-to-end mounting.

T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required. K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.

ELECTRICAL

UL listed for damp locations. Canadian certified optional. Emergency ballasts can be incorporated, UL dry locations. Systems are available offering electrical system efficacy ratings up to 100 Lumens/Watt. Total luminaire efficacy as high as 82 LPW.

ENCLOSURES

Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended "baskets." One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below without tools. T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing. Guide-post spring loaded latches allow easy opening and closing of the enclosure. Choice of center sections includes diffuse acrylic or round perforated steel with overlay.

CONSTRUCTION/FINISH

Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is available.

CATALOG NUMBER

| | | | | | | | | | | | | | |
|---------------|---|--|---|--|--|---|--|---|--|---|--|--|--|
| 1 | ST | | | | | - | | - | | - | | - | |
| WIDTH | CEILING TYPE | NO. OF LAMPS | DIFFUSERS | BALLAST CONFIG. | OPTIONS | | | | | | | | |
| 1' 1' | G Grid F Flange Z Z Spline/Modular T Screw Slot | (not included) 1 2 (28wT5 only) | D Diffuse PMW Round Perf. w/white overlay | 1/1 One 1-Lamp ballast 1/2 One 2-Lamp ballast | CM Canadian Market CC Custom Color F1 3/8" flex, 3 wire 18 gauge F2 3/8" flex, 4 wire 18 gauge E1* DEB-1 emerg. ballast, T8 lamps, 350-450 lumens. E7* DEB-7 emerg. ballast, T8 lamps, 600-700 lumens. E5* DEB-5 emerg. ballast, T8 lamps 1100-1400 lumens. E7LP* DEB-7LP emerg. ballast T5/T5HO, 430-700 lumens. E6* DEB-6LP emerg. ballast, T5/T5HO lamps, 750-1325 lumens. GLR# Fusing, fast blow (# = number of ballasts) LPT730 Installed T8 lamps, 70+ CRI, 3000K LPT735 Installed T8 lamps, 70+ CRI, 3500K LPT741 Installed T8 lamps, 70+ CRI, 4100K LPT830HL Installed T8 or T5 hi lumen lamps, 80+ CRI, 3000K LPT835HL Installed T8 or T5 hi lumen lamps, 80+ CRI, 3500K LPT841HL Installed T8 or T5 hi lumen lamps, 80+ CRI, 4100K LPT830 Installed T8/T5/T5HO lamps, 80+ CRI, 3000K LPT835 Installed T8/T5/T5HO lamps, 80+ CRI, 3500K LPT841 Installed T8/T5/T5HO lamps, 80+ CRI, 4100K PAF Housing painted after fabrication WR White reveal | | | | | | | | |
| FAMILY | AIR FUNCTION | LAMP TYPE/WATTAGE | VOLTAGE | | | | | | | | | | |
| ST SofTrace | A Air Supply/Return S Static (reveal but no air slots) | 28 28wT5 (46") 32 32wT8 (48") 54HO 54wT5HO (46") | 120 277 UNV Universal Voltage, 120-277 volt | | | | | | | | | | |
| | | | | | | | | | | | | BALLAST TYPE | |
| | | | | | | | | | | | | EBD T5/T5HO/T8 electronic dimming ballast | |
| | | | | | | | | | | | | EB T5/T5HO/T8 electronic ballast, std. ballast factor | |
| | | | | | | | | | | | | EBL T8 Electronic ballast, low ballast factor | |
| | | | | | | | | | | | | EBH T8 Electronic ballast, hi ballast factor | |
| | | | | | | | | | | | | EB10I T8 Electronic ballast, <10% THD, instant start | |
| | | | | | | | | | | | | EB10R T8 Electronic ballast, <10% THD, rapid start | |
| | | | | | | | | | | | | EBSD T8 Electronic step dimming ballast | |
| | | | | | | | | | | | | EB95 28wT5 Electronic ballast, .95 ballast factor (2 lamp only) | |
| | | | | | | | | | | | | EB115 28wT5 Electronic ballast, 1.15 ballast factor (2 lamp only) | |
| | | | | | | | | | | | | EBSD95 28wT5 Electronic step dimming ballast, .95 ballast factor (2 lamp only) | |
| | | | | | | | | | | | | EBSD115 28wT5 Electronic step dimming ballast, 1.15 ballast factor (1 or 2 lamp) | |
| | | | | | | | | | | | | EBHE T8 Electronic ballast, high efficiency, std. ballast factor | |

*Factory installed

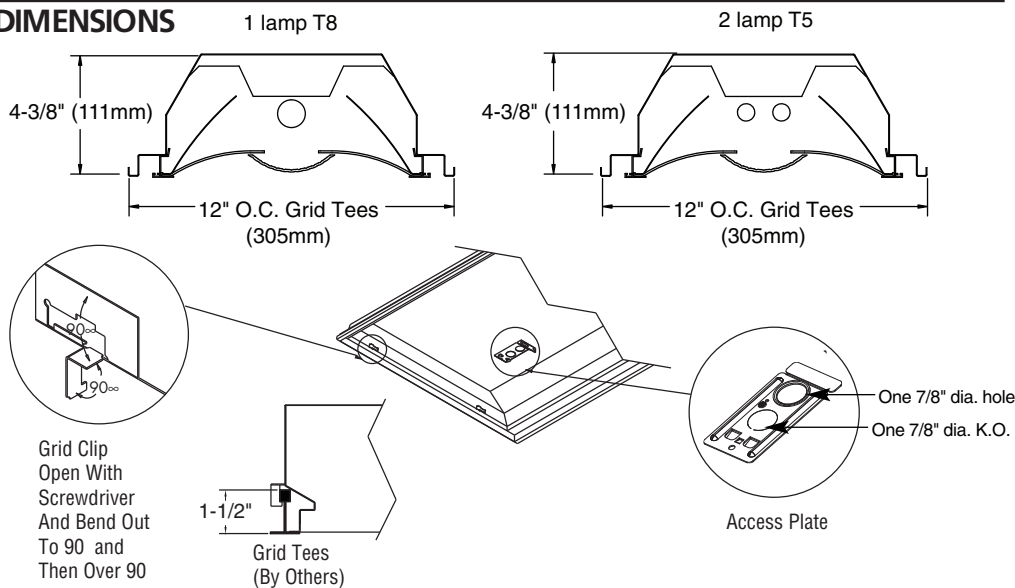
JOB INFORMATION

0175-AR

ENERGY DATA

| Lamp Type | Ballast Type | Input Power (120/277V) | Electrical System Lumens/Watt | |
|-------------|------------------|------------------------|-------------------------------|----------------|
| | | | Std. Lamps* | Hi-lumen Lamps |
| 1 Lamp 28 | EB | 33W / 33W | 91 | 96 |
| | EBSD115@hi (@lo) | 38W / 38W (19W / 19W) | 88 (66) | 92 (69) |
| 1 Lamp 32 | EB | 31W / 31W | 79 | 88 |
| | EB10I | 31W / 31W | 79 | 88 |
| | EB10R | 31W / 30W | 79 | 88 |
| | EBL | 29W / 29W | 87 | 96 |
| | EBH | 41W / 41W | 82 | 91 |
| | EBSD@hi (@lo) | 29W / 29W (14W / 14W) | 85 (60) | 94 (66) |
| 1 Lamp 54HO | EB | 63W / 62W | 82 | — |
| 2 Lamp 28 | EB95 | 60W / 58W | 95 | 100 |
| | EBSD95@hi (@lo) | 60W / 58W (28W / 28W) | 95 (73) | 100 (74) |
| | EB115 | 72W / 71W | 94 | 99 |
| | EBSD115@hi (@lo) | 72W / 71W (35W / 35W) | 94 (80) | 99 (78) |
| | EB | 66W / 64W | 94 | 99 |

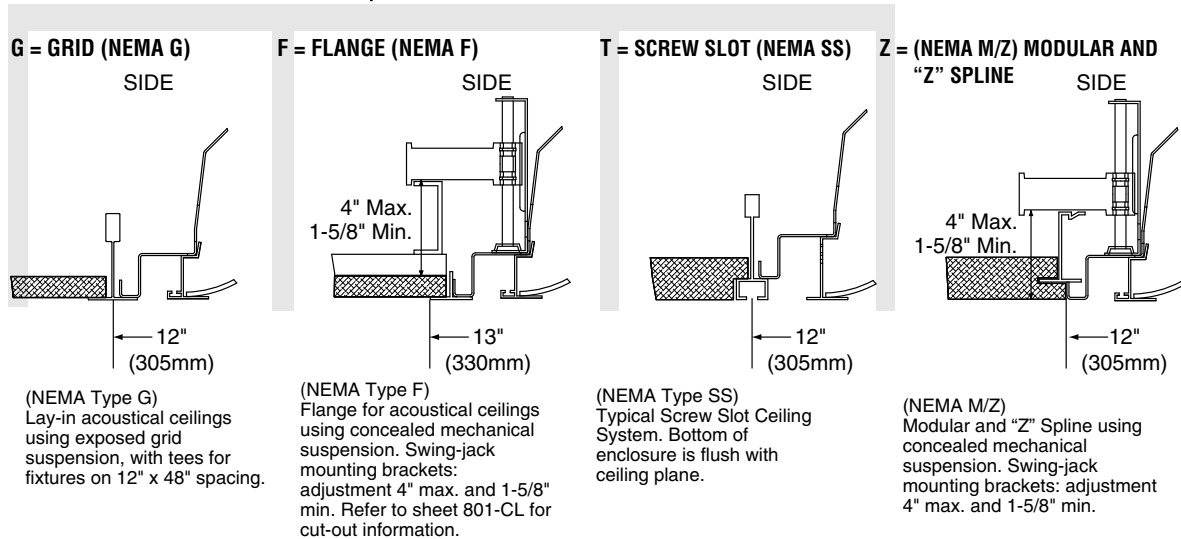
DIMENSIONS



*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.

1 **ST** **G** **A** **1** **32**

CEILING TYPE



PHOTOMETRIC DATA

CATALOG # 1STGA132-D-1/1-EB
TEST #27095 S/MH=1.2

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 37
BALLAST FACTOR = .88

LER = 55

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.36 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 80.5%

1 LAMP T8, DIFFUSE

| CANDLEPOWER | | | | |
|-------------|-----|-----|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 875 | 875 | 875 | |
| 5 | 874 | 871 | 865 | |
| 10 | 861 | 853 | 841 | |
| 15 | 841 | 825 | 810 | |
| 20 | 811 | 789 | 775 | |
| 25 | 774 | 748 | 737 | |
| 30 | 727 | 701 | 702 | |
| 35 | 673 | 654 | 667 | |
| 40 | 611 | 602 | 623 | |
| 45 | 543 | 547 | 570 | |
| 50 | 472 | 486 | 504 | |
| 55 | 399 | 414 | 430 | |
| 60 | 323 | 340 | 348 | |
| 65 | 248 | 265 | 267 | |
| 70 | 182 | 195 | 192 | |
| 75 | 121 | 132 | 123 | |
| 80 | 69 | 73 | 63 | |
| 85 | 30 | 28 | 23 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 60 | 36 |
| 1-Lamp T8 | 2 | 41 | - |
| Diffuse | 1 | 30 | - |

*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|----|----|----|----|----|
| pfc pcc pw | 20 | | 70 | | 50 |
| | 70 | 50 | 30 | 70 | 50 |
| RCR | 0 | 1 | 2 | 3 | 4 |
| | 95 | 95 | 95 | 93 | 93 |
| | 88 | 83 | 81 | 85 | 81 |
| | 80 | 73 | 68 | 78 | 71 |
| | 72 | 65 | 57 | 70 | 64 |
| | 67 | 57 | 51 | 65 | 56 |
| | 61 | 52 | 44 | 59 | 51 |
| | 56 | 46 | 39 | 56 | 46 |
| | 53 | 41 | 34 | 52 | 41 |
| | 48 | 39 | 32 | 47 | 38 |
| | 46 | 34 | 28 | 45 | 34 |
| | 42 | 33 | 26 | 41 | 32 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 662 | 23.2 | 28.8 |
| 0-40 | 1076 | 37.7 | 46.9 |
| 0-60 | 1869 | 65.6 | 81.5 |
| 0-90 | 2293 | 80.5 | 100.0 |

PHOTOMETRIC DATA

CATALOG # 1STGA128-D-1/1-EB
TEST #27091 S/MH=1.2

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 34
BALLAST FACTOR = 1.00

LER = 71

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

FIXTURE EFFICIENCY= 93.0%

1 LAMP T5, DIFFUSE

| CANDLEPOWER | | | | |
|-------------|-----|-----|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 936 | 936 | 936 | |
| 5 | 923 | 927 | 924 | |
| 10 | 917 | 911 | 902 | |
| 15 | 897 | 881 | 866 | |
| 20 | 864 | 839 | 821 | |
| 25 | 823 | 794 | 777 | |
| 30 | 772 | 741 | 735 | |
| 35 | 712 | 687 | 696 | |
| 40 | 644 | 631 | 654 | |
| 45 | 572 | 572 | 602 | |
| 50 | 495 | 508 | 535 | |
| 55 | 415 | 435 | 457 | |
| 60 | 334 | 359 | 373 | |
| 65 | 257 | 278 | 286 | |
| 70 | 188 | 206 | 207 | |
| 75 | 123 | 138 | 131 | |
| 80 | 71 | 76 | 66 | |
| 85 | 30 | 28 | 25 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.89 2600 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 75 | 45 |
| 1-Lamp T5 | 2 | 52 | 31 |
| Diffuse | 1 | 38 | - |

*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|-----|-----|-----|-----|-----|
| pfc pcc pw | 20 | | 70 | | 50 |
| | 70 | 50 | 30 | 70 | 50 |
| RCR | 0 | 1 | 2 | 3 | 4 |
| | 111 | 111 | 111 | 108 | 108 |
| | 102 | 96 | 93 | 98 | 94 |
| | 93 | 84 | 79 | 90 | 82 |
| | 84 | 75 | 68 | 81 | 73 |
| | 78 | 67 | 58 | 75 | 65 |
| | 70 | 59 | 51 | 68 | 58 |
| | 66 | 54 | 46 | 64 | 53 |
| | 60 | 48 | 40 | 59 | 47 |
| | 56 | 45 | 36 | 56 | 44 |
| | 53 | 40 | 33 | 52 | 40 |
| | 50 | 38 | 30 | 48 | 36 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 703 | 27.0 | 29.1 |
| 0-40 | 1138 | 43.8 | 47.1 |
| 0-60 | 1971 | 75.8 | 81.5 |
| 0-90 | 2418 | 93.0 | 100.0 |

PHOTOMETRIC DATA

CATALOG # 1STGA228-D-1/2-EB
TEST #27104 S/MH=1.3

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 60
BALLAST FACTOR = 1.00

LER = 71

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

FIXTURE EFFICIENCY= 81.9%

2 LAMP T5, DIFFUSE

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1552 | 1552 | 1552 | |
| 5 | 1545 | 1550 | 1533 | |
| 10 | 1526 | 1533 | 1518 | |
| 15 | 1490 | 1498 | 1491 | |
| 20 | 1438 | 1457 | 1458 | |
| 25 | 1374 | 1401 | 1417 | |
| 30 | 1296 | 1334 | 1366 | |
| 35 | 1199 | 1257 | 1295 | |
| 40 | 1091 | 1163 | 1197 | |
| 45 | 970 | 1047 | 1073 | |
| 50 | 843 | 916 | 935 | |
| 55 | 710 | 779 | 781 | |
| 60 | 577 | 631 | 631 | |
| 65 | 445 | 490 | 487 | |
| 70 | 323 | 360 | 355 | |
| 75 | 217 | 242 | 227 | |
| 80 | 125 | 139 | 120 | |
| 85 | 53 | 52 | 48 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.89 2600 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 132 | 79 |
| 2-Lamp T5 | 2 | 91 | 54 |
| Diffuse | 1 | 66 | 40 |

*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|----|----|----|----|----|
| pfc pcc pw | 20 | | 70 | | 50 |
| | 70 | 50 | 30 | 70 | 50 |
| RCR | 0 | 1 | 2 | 3 | 4 |
| | 96 | 96 | 96 | 94 | 94 |
| | 89 | 85 | 81 | 86 | 83 |
| | 81 | 75 | 69 | 79 | 72 |
| | 73 | 66 | 58 | 71 | 65 |
| | 68 | 58 | 52 | 66 | 57 |
| | 63 | 52 | 45 | 60 | 51 |
| | 57 | 46 | 40 | 56 | 46 |
| | 54 | 42 | 35 | 52 | 41 |
| | 50 | 39 | 32 | 48 | 39 |
| | 46 | 35 | 28 | 46 | 34 |
| | 44 | 33 | 27 | 42 | 32 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1214 | 23.3 | 28.5 |
| 0-40 | 1996 | 38.4 | 46.9 |
| 0-60 | 3473 | 66.8 | 81.6 |
| 0-90 | 4257 | 81.9 | 100.0 |

PHOTOMETRIC DATA

CATALOG # 1STGA132-PMW-1/1-EB
TEST #27096 S/MH=1.4

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 37
BALLAST FACTOR = .88

LER = 49

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.90 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 72.1%

1 LAMP T8, PERF.

| CANDLEPOWER | | | | |
|-------------|-----|-----|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 697 | 697 | 697 | |
| 5 | 696 | 696 | 692 | |
| 10 | 686 | 689 | 689 | |
| 15 | 671 | 678 | 683 | |
| 20 | 649 | 663 | 677 | |
| 25 | 622 | 645 | 670 | |
| 30 | 589 | 623 | 658 | |
| 35 | 551 | 595 | 639 | |
| 40 | 505 | 560 | 606 | |
| 45 | 456 | 516 | 557 | |
| 50 | 400 | 460 | 495 | |
| 55 | 341 | 396 | 421 | |
| 60 | 277 | 323 | 345 | |
| 65 | 216 | 252 | 265 | |
| 70 | 158 | 183 | 187 | |
| 75 | 104 | 118 | 105 | |
| 80 | 61 | 56 | 48 | |
| 85 | 26 | 18 | 17 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 54 | 32 |
| 1-Lamp T8 Perf. | 2 | 37 | - |
| | 1 | - | - |

*Observe Fixture S/MH Requirements for Specific Applications

.75LLF = .94LDD x .91LLD x 0.88BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|----|----|----|----|----|
| pfc | 20 | | | | |
| | 80 | 70 | 50 | 30 | 50 |
| pcc | 80 | 70 | 50 | 30 | 50 |
| pw | 70 | 50 | 30 | 50 | 30 |
| RCR | 0 | 85 | 85 | 83 | 83 |
| | 1 | 79 | 75 | 71 | 77 |
| | 2 | 71 | 66 | 60 | 69 |
| | 3 | 65 | 57 | 52 | 64 |
| | 4 | 59 | 51 | 45 | 57 |
| | 5 | 55 | 46 | 39 | 53 |
| | 6 | 51 | 40 | 34 | 48 |
| | 7 | 46 | 36 | 30 | 46 |
| | 8 | 44 | 34 | 28 | 42 |
| | 9 | 40 | 30 | 25 | 40 |
| | 10 | 38 | 28 | 23 | 38 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 556 | 19.5 | 27.0 |
| 0-40 | 928 | 32.6 | 45.1 |
| 0-60 | 1667 | 58.5 | 81.1 |
| 0-90 | 2055 | 72.1 | 100.0 |

PHOTOMETRIC DATA

CATALOG # 1STGA128-PMW-1/1-EB
TEST #27090 S/MH=1.4

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 34
BALLAST FACTOR = 1.00

LER = 63

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

FIXTURE EFFICIENCY = 82.3%

1 LAMP T5, PERF.

| CANDLEPOWER | | | | |
|-------------|------|-----|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 9711 | 711 | 711 | |
| 5 | 711 | 710 | 707 | |
| 10 | 701 | 704 | 705 | |
| 15 | 684 | 694 | 702 | |
| 20 | 662 | 680 | 697 | |
| 25 | 634 | 663 | 691 | |
| 30 | 601 | 641 | 682 | |
| 35 | 558 | 613 | 664 | |
| 40 | 516 | 583 | 639 | |
| 45 | 463 | 537 | 594 | |
| 50 | 410 | 484 | 532 | |
| 55 | 349 | 418 | 456 | |
| 60 | 284 | 343 | 374 | |
| 65 | 222 | 270 | 287 | |
| 70 | 164 | 195 | 203 | |
| 75 | 109 | 127 | 114 | |
| 80 | 63 | 61 | 49 | |
| 85 | 26 | 19 | 17 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.89 2600 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 66 | 40 |
| 1-Lamp T5 Perf. | 2 | 45 | - |
| | 1 | 33 | - |

*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|----|----|----|----|----|
| pfc | 20 | | | | |
| | 80 | 70 | 50 | 30 | 50 |
| pcc | 80 | 70 | 50 | 30 | 50 |
| pw | 70 | 50 | 30 | 50 | 30 |
| RCR | 0 | 97 | 97 | 97 | 95 |
| | 1 | 90 | 85 | 82 | 88 |
| | 2 | 81 | 75 | 68 | 80 |
| | 3 | 73 | 66 | 58 | 71 |
| | 4 | 68 | 57 | 51 | 66 |
| | 5 | 63 | 52 | 45 | 60 |
| | 6 | 57 | 46 | 39 | 56 |
| | 7 | 53 | 41 | 34 | 52 |
| | 8 | 50 | 38 | 30 | 47 |
| | 9 | 46 | 34 | 28 | 44 |
| | 10 | 42 | 32 | 26 | 41 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 569 | 21.9 | 26.6 |
| 0-40 | 953 | 36.7 | 44.5 |
| 0-60 | 1728 | 66.5 | 80.8 |
| 0-90 | 2140 | 82.3 | 100.0 |

PHOTOMETRIC DATA

CATALOG # 1STGA228-PMW-1/2-EB
TEST #27101-1 S/MH=1.4

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 63
BALLAST FACTOR = 1.00

LER = 63

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

FIXTURE EFFICIENCY = 76.0%

2 LAMP T5, PERF.

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1309 | 1309 | 1309 | |
| 5 | 1307 | 1314 | 1302 | |
| 10 | 1287 | 1306 | 1309 | |
| 15 | 1258 | 1296 | 1316 | |
| 20 | 1217 | 1278 | 1318 | |
| 25 | 1166 | 1253 | 1313 | |
| 30 | 1103 | 1218 | 1290 | |
| 35 | 1032 | 1166 | 1244 | |
| 40 | 944 | 1092 | 1169 | |
| 45 | 851 | 998 | 1068 | |
| 50 | 744 | 885 | 960 | |
| 55 | 634 | 760 | 825 | |
| 60 | 516 | 634 | 677 | |
| 65 | 399 | 503 | 509 | |
| 70 | 294 | 363 | 347 | |
| 75 | 196 | 227 | 195 | |
| 80 | 111 | 103 | 84 | |
| 85 | 47 | 31 | 29 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.89 2600 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 | |
| | | 30 ft-c | 50 ft-c |
| 1x4 | 5 | 123 | 74 |
| 2-Lamp T5 Perf. | 2 | 83 | 50 |
| | 1 | 60 | 36 |

*Observe Fixture S/MH Requirements for Specific Applications

.89LLF = .94LDD x .95LLD x 1.00BF

| COEFFICIENT OF UTILIZATION | | | | | |
|----------------------------|----|----|----|----|----|
| pfc | 20 | | | | |
| | 80 | 70 | 50 | 30 | 50 |
| pcc | 80 | 70 | 50 | 30 | 50 |
| pw | 70 | 50 | 30 | 50 | 30 |
| RCR | 0 | 91 | 91 | 91 | 88 |
| | 1 | 82 | 79 | 76 | 81 |
| | 2 | 76 | 68 | 64 | 73 |
| | 3 | 68 | 60 | 55 | 67 |
| | 4 | 63 | 54 | 46 | 60 |
| | 5 | 57 | 47 | 40 | 56 |
| | 6 | 53 | 42 | 35 | 52 |
| | 7 | 48 | 39 | 32 | 47 |
| | 8 | 46 | 35 | 28 | 45 |
| | 9 | 42 | 33 | 26 | 41 |
| | 10 | 40 | 29 | 23 | 39 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1065 | 20.5 | 26.9 |
| 0-40 | 1785 | 34.3 | 45.1 |
| 0-60 | 3206 | 61.6 | 81.1 |
| 0-90 | 3953 | 76.0 | 100.0 |