

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 or 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.
- Grid, Flange, Z-spline/ Modular, or Screw Slot models available.
- Designed for air supply/return through side slots in reveal. See sheet 518.1-AH for air flow data.

- Wireway cover is easily removable from below without tools.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- K.O. in 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 102 Lumens/Watt.
- Total luminaire efficacy as high as 88 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 with smooth or ribbed surface, round perforated steel with overlay, or white radial louver with overlay.
- Smooth side diffusers standard, ribbed optional.

CONSTRUCTION/FINISH

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is available.

CATALOG NUMBER

| 2 | ST | | | 2 | | | | 1/2 | | |
|---------------|--|--|--|---|--|--|--|------------|--|--|
| WIDTH | CEILING TYPE | NO. OF LAMPS | CENTER DIFFUSER | BALLAST CONFIG. | OPTIONS | | | | | |
| 2 - 2' | G - Grid F - Flange Z - Z Spline/Modular T - Screw Slot | (not included) 2 | D - Diffuse (Ribbed) DS - Diffuse (Smooth) PMW - Round Perf. w/white overlay WO - Radial louver w/white overlay | 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 stamping WR - White reveal RIB - Ribbed side diffusers | | | | | |
| FAMILY | AIR FUNCTION | LAMP TYPE/WATTAGE | VOLTAGE | BALLAST TYPE | | | | | | |
| ST - SofTrace | A - Air Supply/Return S - Static (reveal but no air slots) | 28 - 28wT5 (46") 32 - 32wT8 (48") 54HO - 54wT5HO (46") | 120 277 347 UNV - Universal Voltage, 120-277 volt | EB95 - 28wT5 Electronic ballast, .95 ballast factor EB115 - 28wT5 Electronic ballast, 1.15 ballast factor EBSD95 - 28wT5 Electronic step dimming ballast, .95 ballast factor EBSD115 - 28wT5 Electronic step dimming ballast, 1.15 ballast factor EBSD80 - 54wT5HO Electronic step dimming ballast, .80 ballast factor 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 EB101 - T8 Electronic ballast, <10% THD, instant start EB10R - T8 Electronic ballast, <10% THD, rapid start EBSD - T8 Electronic step dimming ballast EBHE - T8 Electronic ballast, high efficiency, std. ballast factor | | | | | | |

*Factory installed

JOB INFORMATION

0179.1-AR

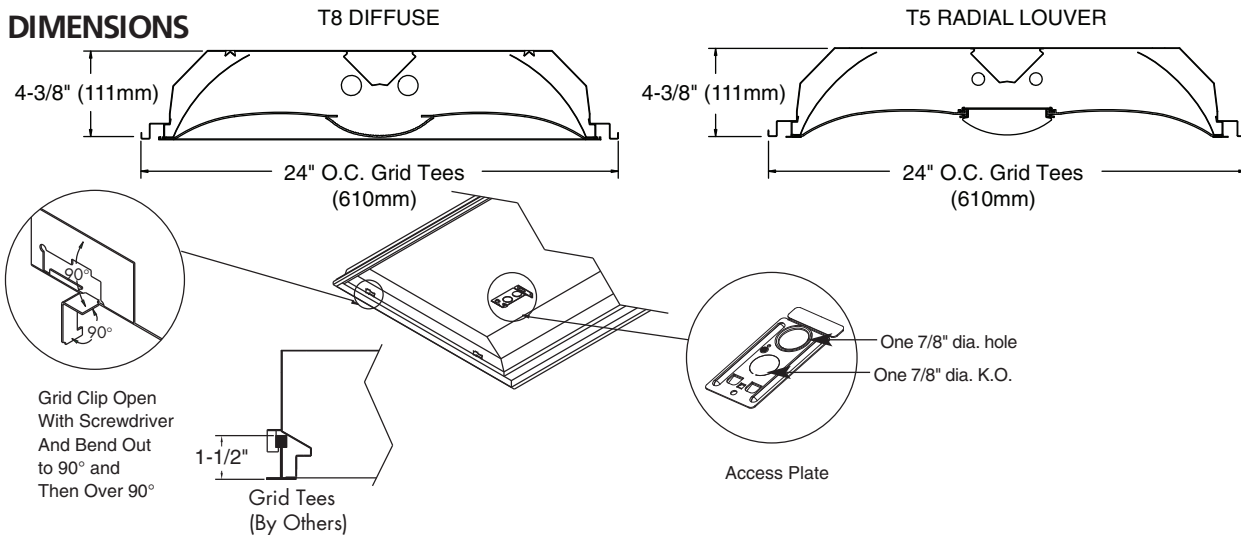
PHILIPS
Day-Brite

ENERGY DATA

| Lamp Type | Ballast Type | Input Power (120/277V) | Electrical System Lumens/Watt | |
|-----------|--------------|------------------------|-------------------------------|----------------|
| | | | Std. Lamps* | Hi-lumen Lamps |
| 28 | EB95 | 60W / 58W | 95 | 100 |
| | EBSD95@hi | 60W / 58W | 95 | 100 |
| | EBSD95@lo | 28W / 28W | 73 | 76 |
| | EB115 | 72W / 71W | 94 | 99 |
| | EBSD115@hi | 72W / 71W | 94 | 99 |
| | EBSD115@lo | 35W / 35W | 80 | 81 |
| | EB | 66W / 64W | 95 | 100 |
| 32 | EB | 58W / 58W | 85 | 94 |
| | EB10I | 59W / 58W | 85 | 94 |
| | EB10R | 62W / 60W | 82 | 91 |
| | EBL | 47W / 47W | 92 | 102 |
| | EBH | 77W / 77W | 87 | 97 |
| | EBSD@hi | 57W / 56W | 88 | 97 |
| | EBSD@lo | 28W / 28W | 60 | 66 |
| 54HO | EB | 120W / 117W | 85 | - |
| | EBSD80@hi | 96W / 93W | 86 | - |
| | EBSD80@lo | 52W / 51W | 78 | - |

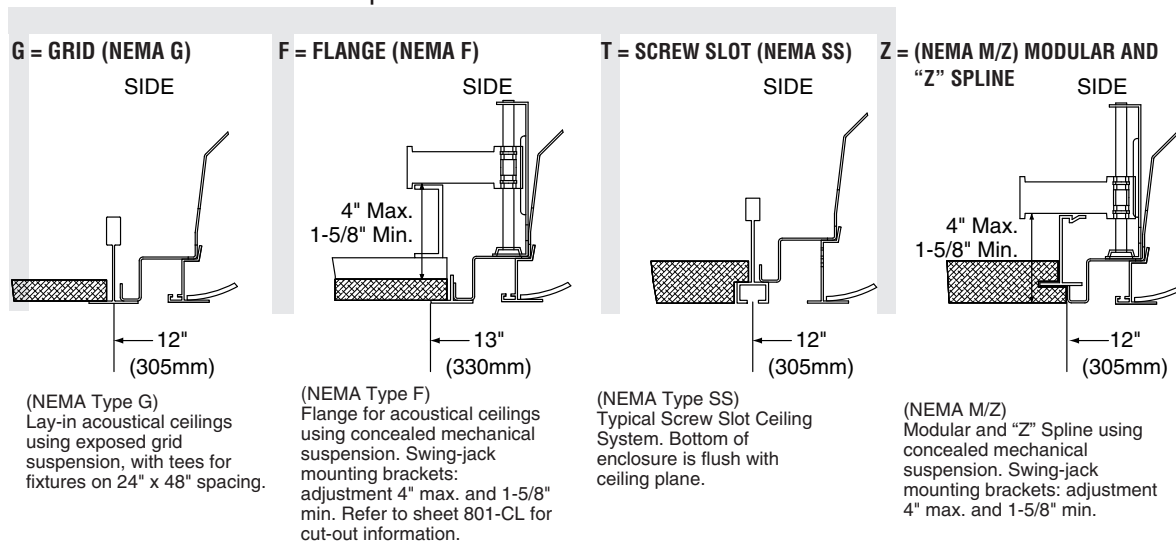
*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.

DIMENSIONS



2 **ST** **G** **A** **2** **32**

CEILING TYPE



PHOTOMETRIC DATA

CATALOG # 2STGA232-D-1/2-EB
TEST #27034 S/MH=1.2

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 59
BALLAST FACTOR = 0.88

LER = 72

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$3.33** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 85.2%

T8, DIFFUSE*
*smooth or ribbed center,
smooth or ribbed sides

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1725 | 1725 | 1725 | |
| 5 | 1730 | 1719 | 1707 | |
| 10 | 1701 | 1693 | 1680 | |
| 15 | 1661 | 1653 | 1639 | |
| 20 | 1608 | 1597 | 1584 | |
| 25 | 1533 | 1525 | 1515 | |
| 30 | 1444 | 1439 | 1443 | |
| 35 | 1334 | 1345 | 1372 | |
| 40 | 1219 | 1241 | 1294 | |
| 45 | 1089 | 1137 | 1214 | |
| 50 | 944 | 1020 | 1120 | |
| 55 | 814 | 895 | 996 | |
| 60 | 642 | 756 | 850 | |
| 65 | 492 | 606 | 688 | |
| 70 | 359 | 462 | 517 | |
| 75 | 236 | 320 | 355 | |
| 80 | 135 | 195 | 188 | |
| 85 | 56 | 73 | 66 | |

| 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 |
| 2x4 | 5 | 127 | 76 |
| 2-Lamp T8 | 2 | 86 | 52 |
| Diffuse | 1 | 63 | 38 |

*Observe Fixture S/MH Requirements for Specific Applications

| COEFFICIENT OF UTILIZATION | | | | | | | | | | | |
|----------------------------|-----|-----|-----|----|----|----|----|----|----|----|--|
| pfc pcc pw RCR | 20 | | | 80 | | | 70 | | | 50 | |
| | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 50 | 30 | |
| 0 | 101 | 101 | 101 | 98 | 98 | 98 | 94 | 94 | 94 | 94 | |
| 1 | 93 | 89 | 84 | 90 | 86 | 82 | 82 | 80 | 82 | 80 | |
| 2 | 83 | 77 | 70 | 81 | 76 | 69 | 72 | 68 | 72 | 67 | |
| 3 | 77 | 68 | 60 | 75 | 66 | 59 | 64 | 57 | 64 | 57 | |
| 4 | 69 | 59 | 53 | 68 | 58 | 52 | 56 | 51 | 56 | 51 | |
| 5 | 65 | 54 | 46 | 63 | 53 | 45 | 51 | 44 | 51 | 44 | |
| 6 | 59 | 47 | 40 | 57 | 46 | 40 | 46 | 39 | 46 | 39 | |
| 7 | 55 | 44 | 35 | 54 | 42 | 35 | 41 | 34 | 41 | 34 | |
| 8 | 51 | 40 | 33 | 50 | 39 | 32 | 38 | 32 | 38 | 32 | |
| 9 | 47 | 36 | 29 | 46 | 35 | 28 | 34 | 28 | 34 | 28 | |
| 10 | 45 | 34 | 27 | 44 | 33 | 27 | 32 | 26 | 32 | 26 | |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1331 | 23.4 | 27.4 |
| 0-40 | 2175 | 38.2 | 44.8 |
| 0-60 | 3856 | 67.7 | 79.4 |
| 0-90 | 4854 | 85.2 | 100.0 |

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

PHOTOMETRIC DATA

CATALOG # 2STGA228-D-1/2-EB95
TEST #27100 S/MH=1.2

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 60
BALLAST FACTOR = 0.95

LER = 78

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = **\$3.08** BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 95.1%

T5, DIFFUSE*
*smooth or ribbed center,
smooth or ribbed sides

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1759 | 1759 | 1759 | |
| 5 | 1757 | 1749 | 1745 | |
| 10 | 1732 | 1723 | 1718 | |
| 15 | 1690 | 1682 | 1675 | |
| 20 | 1636 | 1626 | 1608 | |
| 25 | 1559 | 1549 | 1534 | |
| 30 | 1466 | 1456 | 1451 | |
| 35 | 1358 | 1354 | 1374 | |
| 40 | 1232 | 1249 | 1306 | |
| 45 | 1093 | 1139 | 1237 | |
| 50 | 941 | 1024 | 1154 | |
| 55 | 791 | 903 | 1046 | |
| 60 | 640 | 768 | 903 | |
| 65 | 495 | 624 | 739 | |
| 70 | 356 | 476 | 565 | |
| 75 | 236 | 335 | 390 | |
| 80 | 136 | 203 | 203 | |
| 85 | 54 | 74 | 65 | |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|-----------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.85 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 |
| 2x4 | 5 | 145 | 87 |
| 2-Lamp T5 | 2 | 98 | 59 |
| Diffuse | 1 | 71 | 43 |

*Observe Fixture S/MH Requirements for Specific Applications

| COEFFICIENT OF UTILIZATION | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| pfc pcc pw RCR | 20 | | | 80 | | | 70 | | | 50 | |
| | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 50 | 30 | |
| 0 | 112 | 112 | 112 | 111 | 111 | 111 | 106 | 106 | 106 | 106 | |
| 1 | 103 | 98 | 94 | 101 | 96 | 93 | 93 | 90 | 93 | 90 | |
| 2 | 93 | 85 | 80 | 91 | 83 | 78 | 81 | 76 | 81 | 76 | |
| 3 | 85 | 76 | 68 | 82 | 73 | 67 | 70 | 65 | 70 | 65 | |
| 4 | 78 | 67 | 57 | 76 | 66 | 57 | 63 | 56 | 63 | 56 | |
| 5 | 71 | 59 | 51 | 69 | 58 | 51 | 56 | 48 | 56 | 48 | |
| 6 | 66 | 54 | 45 | 65 | 53 | 45 | 51 | 44 | 51 | 44 | |
| 7 | 61 | 48 | 40 | 59 | 47 | 40 | 46 | 39 | 46 | 39 | |
| 8 | 56 | 44 | 35 | 56 | 44 | 35 | 41 | 34 | 41 | 34 | |
| 9 | 54 | 40 | 33 | 52 | 40 | 33 | 39 | 32 | 39 | 32 | |
| 10 | 50 | 38 | 29 | 48 | 36 | 29 | 35 | 28 | 35 | 28 | |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1354 | 26.0 | 27.4 |
| 0-40 | 2205 | 42.4 | 44.6 |
| 0-60 | 3906 | 75.1 | 79.0 |
| 0-90 | 4943 | 95.1 | 100.0 |

.85LLF = .94LDD x .95LLD x 0.95BF

PHOTOMETRIC DATA

CATALOG # 2STGA232-PMW-1/2-EB
TEST #27092 S/MH=1.3

LAMPS = F32T8
BALLAST = ELECTRONIC

INPUT WATTS = 61
BALLAST FACTOR = 0.88

LER = 59

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

FIXTURE EFFICIENCY= 72.2%

T8, PERF.

| CANDLEPOWER | | | | |
|-------------|------|------|-------|--|
| Angle | End | 45 | Cross | |
| 0 | 1394 | 1394 | 1394 | |
| 5 | 1395 | 1390 | 1383 | |
| 10 | 1373 | 1372 | 1369 | |
| 15 | 1339 | 1343 | 1349 | |
| 20 | 1293 | 1306 | 1322 | |
| 25 | 1230 | 1258 | 1288 | |
| 30 | 1157 | 1198 | 1251 | |
| 35 | 1075 | 1132 | 1213 | |
| 40 | 970 | 1057 | 1162 | |
| 45 | 869 | 979 | 1105 | |
| 50 | 755 | 889 | 1023 | |
| 55 | 632 | 783 | 918 | |
| 60 | 506 | 666 | 790 | |
| 65 | 385 | 529 | 651 | |
| 70 | 279 | 403 | 508 | |
| 75 | 184 | 279 | 348 | |
| 80 | 103 | 158 | 156 | |
| 85 | 40 | 38 | 39 | |

| 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 |
| 2x4 | 5 | 108 | 65 |
| 2-Lamp T8 | 2 | 72 | 43 |
| Perf. | 1 | 53 | 32 |

*Observe Fixture S/MH Requirements for Specific Applications

| COEFFICIENT OF UTILIZATION | | | | | | | | | | | |
|----------------------------|----|----|----|----|----|----|----|----|----|----|--|
| pfc pcc pw RCR | 20 | | | 80 | | | 70 | | | 50 | |
| | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 | 50 | 30 | |
| 0 | 85 | 85 | 85 | 83 | 83 | 83 | 80 | 80 | 80 | 80 | |
| 1 | 79 | 75 | 71 | 77 | 72 | 70 | 69 | 68 | 69 | 68 | |
| 2 | 70 | 65 | 59 | 68 | 64 | 58 | 60 | 57 | 60 | 57 | |
| 3 | 65 | 56 | 51 | 63 | 56 | 51 | 54 | 48 | 54 | 48 | |
| 4 | 58 | 51 | 44 | 57 | 50 | 44 | 47 | 42 | 47 | 42 | |
| 5 | 55 | 45 | 39 | 53 | 44 | 38 | 42 | 36 | 42 | 36 | |
| 6 | 50 | 40 | 34 | 48 | 40 | 34 | 39 | 33 | 39 | 33 | |
| 7 | 46 | 36 | 29 | 45 | 35 | 29 | 34 | 29 | 34 | 29 | |
| 8 | 42 | 33 | 27 | 41 | 33 | 27 | 32 | 27 | 32 | 27 | |
| 9 | 40 | 30 | 25 | 39 | 29 | 25 | 28 | 23 | 28 | 23 | |
| 10 | 38 | 28 | 23 | 36 | 28 | 22 | 27 | 22 | 27 | 22 | |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1091 | 19.1 | 26.5 |
| 0-40 | 1803 | 31.6 | 43.8 |
| 0-60 | 3254 | 57.1 | 79.1 |
| 0-90 | 4115 | 72.2 | 100.0 |

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

2' x 4' SofTrace AIR

PHOTOMETRIC DATA

CATALOG # 2STGA228-PMW-1/2-EB95
TEST #27099 S/MH=1.3

LAMPS = F28T5
BALLAST = ELECTRONIC

INPUT WATTS = 60
BALLAST FACTOR = 0.95

LER = 66

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.64 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 80.6%

T5, PERF.

| CANDLEPOWER | | | |
|-------------|------|------|-------|
| Angle | End | 45 | Cross |
| 0 | 1403 | 1403 | 1403 |
| 5 | 1407 | 1401 | 1390 |
| 10 | 1382 | 1380 | 1377 |
| 15 | 1348 | 1348 | 1355 |
| 20 | 1300 | 1314 | 1326 |
| 25 | 1242 | 1265 | 1290 |
| 30 | 1169 | 1205 | 1252 |
| 35 | 1086 | 1141 | 1217 |
| 40 | 986 | 1069 | 1178 |
| 45 | 880 | 990 | 1127 |
| 50 | 760 | 900 | 1054 |
| 55 | 640 | 801 | 953 |
| 60 | 514 | 683 | 827 |
| 65 | 394 | 553 | 688 |
| 70 | 287 | 418 | 544 |
| 75 | 190 | 294 | 361 |
| 80 | 106 | 165 | 161 |
| 85 | 43 | 40 | 40 |

| MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture* | | | |
|---|---------------------------|------------------------------------|---------|
| <ul style="list-style-type: none"> ■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.85 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 |
| 2x4 | 5 | 123 | 74 |
| 2-Lamp T5 | 2 | 83 | 50 |
| Perf. | 1 | 60 | 36 |

*Observe Fixture S/MH Requirements for Specific Applications

.85LLF = .94LDD x .95LLD x 0.95BF

| COEFFICIENT OF UTILIZATION | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|----|
| pfc pcc pw RCR | 20 | | 70 | | 50 | |
| | 70 | 50 | 30 | 70 | 50 | 30 |
| 0 | 105 | 105 | 105 | 102 | 102 | 97 |
| 1 | 96 | 93 | 89 | 93 | 91 | 88 |
| 2 | 89 | 81 | 76 | 85 | 80 | 75 |
| 3 | 81 | 71 | 66 | 79 | 70 | 65 |
| 4 | 75 | 65 | 56 | 72 | 63 | 56 |
| 5 | 68 | 57 | 50 | 67 | 56 | 50 |
| 6 | 64 | 52 | 45 | 61 | 52 | 44 |
| 7 | 58 | 47 | 40 | 57 | 46 | 40 |
| 8 | 55 | 44 | 35 | 54 | 42 | 35 |
| 9 | 52 | 40 | 33 | 50 | 40 | 33 |
| 10 | 47 | 36 | 29 | 46 | 36 | 29 |

| LIGHT DISTRIBUTION | | | |
|--------------------|--------|--------|-----------|
| DEGREES | LUMENS | % LAMP | % FIXTURE |
| 0-30 | 1098 | 21.1 | 26.2 |
| 0-40 | 1815 | 34.9 | 43.3 |
| 0-60 | 3293 | 63.3 | 78.6 |
| 0-90 | 4189 | 80.6 | 100.0 |

0179.1-AR

DAY-BRITE LIGHTING • www.daybritelighting.com
776 South Green Street • Tupelo, Mississippi 38804 • PH: (662) 842-7212 • FAX: (662) 841-5501

CANADIAN DIVISION
189 Bullock Drive • Markham, Ontario L3P 1W4 • PH: (905) 294-9570 • FAX: (905) 294-9811

©DECEMBER 2009 DAY-BRITE LIGHTING DAY-BRITE RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE.

PHILIPS
Day-Brite