



GE
Lighting

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41778 – F31T8/SPX41/U

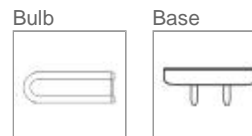
GE Mod-U-line® T8



High Color Rendering

GENERAL CHARACTERISTICS

| | |
|----------------------------|-------------------------------|
| Lamp type | Linear Fluorescent - U-Shaped |
| Bulb | T8 |
| Base | Medium Bi-Pin (G13) |
| Wattage | 31 |
| Voltage | 135 |
| Rated Life | 20000 hrs |
| Bulb Material | Soda lime |
| Starting Temperature (MIN) | 10 |
| Picograms of Mercury | 160 picograms |



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ADDITIONAL RESOURCES

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- [Mod-U-Line®](#)

[MSDS \(Material Safety Data Sheets\)](#)

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PHOTOMETRIC CHARACTERISTICS

| | |
|---------------------------------|--------|
| Initial Lumens | 2725 |
| Mean Lumens | 2500 |
| Nominal Initial Lumens per Watt | 87 |
| Color Temperature | 4100 K |
| Color Rendering Index (CRI) | 82 |

ELECTRICAL CHARACTERISTICS

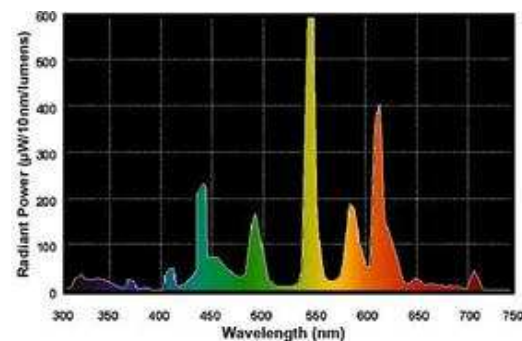
| | |
|--|---------------|
| Open Circuit Voltage (rapid start) Min @ Temperature | 315 V @ 10 °C |
| Cathode Resistance Ratio - Rh/Rc (MIN) | 4.25 |
| Cathode Resistance Ratio - Rh/Rc (MAX) | 6.5 |
| Current Crest Factor (MAX) | 1.7 |

DIMENSIONS

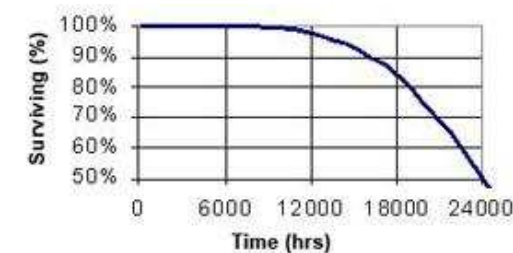
| | |
|-----------------------------------|---------|
| Maximum Overall Length (MOL) | 22.6000 |
| Minimum Overall Length | 22 1/4 |
| Nominal Length | 22 1/2 |
| Bulb Diameter (DIA) | 1 |
| Bulb Diameter in Bend (MIN) | 0.940 |
| Bulb Diameter in Bend (MAX) | 1.100 |
| Bulb Diameter in Legs (MIN) | 0.940 |
| Bulb Diameter in Legs (MAX) | 1.100 |
| Base Face to Top of Lamp | 22 1/4 |
| Lamp Legs Center to Center Length | 1 5/8 |

GRAPHS & CHARTS

Spectral Power Distribution



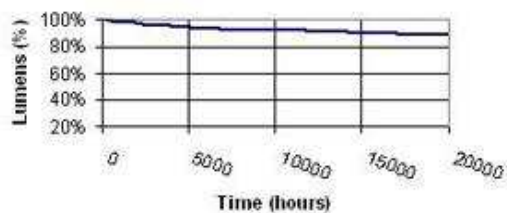
Lamp Mortality



Lumen Maintenance

PRODUCT INFORMATION

| | |
|----------------------------------|-------------------|
| Product Code | 41778 |
| Description | F31T8/SPX41/U |
| ANSI Code | 78901-ANSI-4026-1 |
| Standard Package | Case |
| Standard Package GTIN | 10043168417782 |
| Standard Package Quantity | 15 |
| Sales Unit | Unit |
| No Of Items Per Sales Unit | 1 |
| No Of Items Per Standard Package | 15 |
| UPC | 043168417785 |

**COMPATIBLE GE BALLASTS**

| Product Code | Description | # of Bulbs | Power Factor | Ballast Factor |
|-----------------------|------------------|------------|--------------|----------------|
| 80353 | B132R120V5 | 1 | 90.0 | 0.88 |
| 80355 | B232SR120V5 | 2 | 90.0 | 0.88 |
| 80362 | B232SR277S50 | 2 | 90.0 | 0.88 |
| 80356 | B232SR277V5 | 2 | | 0.88 |
| 80357 | B332SR120V5 | 3 | 90.0 | 0.88 |
| 80358 | B332SR277V5 | 3 | 90.0 | 0.88 |
| 23680 | GE-132-120-N | 1 | 99.0 | 0.87 |
| 24161 | GE-132-120-N-84T | 1 | 99.0 | 0.87 |
| 23681 | GE-132-277-N | 1 | 99.0 | 0.87 |
| 24162 | GE-132-277-N-84T | 1 | 99.0 | 0.87 |
| 72258 | GE132MAX-L/ULTRA | 1 | 99.0 | 0.77 |
| 72259 | GE132MAX-N/ULTRA | 1 | 99.0 | 0.87 |
| 30189 | GE-132-MV-N | 1 | 99.0 | 0.87 |
| 72269 | GE-132-MV-N | 1 | 99.0 | 0.87 |
| 30268 | GE-132-MV-N-42T | 1 | 99.0 | 0.87 |
| 72270 | GE-132-MV-N-42T | 1 | 99.0 | 0.87 |
| 23671 | GE-232-120-N | 1 | 99.0 | 0.94 |
| 24163 | GE-232-120-N-84T | 1 | 99.0 | 0.94 |
| 29621 | GE-232-120-PS-N | 1 | 99.0 | 1.03 |
| 97782 | GE232-120-RES | 1 | 48.0 | 0.99 |
| 71037 | GE232-120RES-DIY | 1 | 48.0 | 0.99 |
| 23672 | GE-232-277-N | 2 | 99.0 | 0.94 |
| 24164 | GE-232-277-N-84T | 2 | 99.0 | 0.94 |
| 29622 | GE-232-277-PS-N | 1 | 95.0 | 1.03 |
| 29632 | GE-232-277PS-N-T | 1 | 95.0 | 1.03 |
| 47548 | GE232MAX-H-42T | 1 | 99.0 | 1.15 |
| 49775 | GE232MAX-H/ULTRA | 1 | 99.0 | 1.15 |
| 72263 | GE232MAX-L-42T | 1 | 99.0 | 0.77 |
| 49707 | GE232MAX- | 1 | 99.0 | 0.77 |

| L/ULTRA | | | | |
|-----------------------|------------------|---|------|------|
| 72262 | GE232MAX-L/ULTRA | 1 | 99.0 | 0.77 |
| 71421 | GE232MAX-N+ | 1 | 99.0 | 1.0 |
| 72267 | GE232MAX-N-42T | 1 | 99.0 | 0.87 |
| 31052 | GE232MAX-N-42T | 1 | 99.0 | 0.87 |
| 72264 | GE232MAX-N/AMP | 1 | 99.0 | 0.87 |
| 72265 | GE232MAX-N/CTR | 1 | 99.0 | 0.87 |
| 23940 | GE232MAX-N-DIY | 1 | 99.0 | 0.87 |
| 72268 | GE232MAX-N-DIY | 1 | 99.0 | 0.87 |
| 72266 | GE232MAX-N/ULTRA | 1 | 99.0 | 0.87 |
| 30198 | GE-232-MV-H | 1 | 99.0 | 1.34 |
| 30275 | GE-232-MV-H-42T | 1 | 99.0 | 1.34 |
| 30247 | GE-232-MV-L | 1 | 99.0 | 0.93 |
| 72273 | GE-232-MV-L | 1 | 99.0 | 0.93 |
| 72274 | GE-232-MV-L-42T | 1 | 99.0 | 0.93 |
| 72275 | GE-232-MV-N | 1 | 99.0 | 1.08 |
| 72276 | GE-232-MV-N-42T | 1 | 99.0 | 1.08 |
| 72277 | GE232MV-N-DIY | 1 | 99.0 | 1.08 |
| 97709 | GE-232MV-N-DIY | 1 | 99.0 | 1.02 |
| 29675 | GE-232-MVPS-H | 1 | 98.0 | 1.37 |
| 29651 | GE-232-MV-PS-H-T | 1 | 98.0 | 1.37 |
| 96720 | GE232-MVPS-L | 1 | 98.0 | 0.81 |
| 96714 | GE232-MVPS-N | 1 | 98.0 | 1.05 |
| 29671 | GE-232-MVPS-XL | 1 | 98.0 | 0.7 |
| 23673 | GE-332-120-N | 2 | 99.0 | 0.94 |
| 24165 | GE-332-120-N-84T | 2 | 99.0 | 0.94 |
| 29623 | GE-332-120-PS-N | 2 | 99.0 | 1.0 |
| 29633 | GE-332-120PS-N-T | 2 | 99.0 | 1.0 |
| 23674 | GE-332-277-N | 2 | 99.0 | 0.94 |
| 24166 | GE-332-277-N-84T | 2 | 99.0 | 0.94 |
| 29624 | GE-332-277-PS-N | 2 | 97.0 | 1.0 |
| 47549 | GE332MAX-H-42T | 2 | 99.0 | 1.15 |
| 71715 | GE332MAX-H-42T | 2 | 99.0 | 1.29 |
| 97713 | GE332MAX-HSL84T | 2 | 99.0 | 1.15 |
| 71714 | GE332MAX-H/ULTRA | 2 | 99.0 | 1.29 |
| 71718 | GE332MAX-L-42T | 2 | 99.0 | 0.89 |
| 71717 | GE332MAX-L/ULTRA | 2 | 99.0 | 0.89 |
| 49708 | GE332MAX-L/ULTRA | 2 | 99.0 | 0.77 |
| 71422 | GE332MAX-N+ | 2 | 99.0 | 1.0 |

| | | | | |
|-----------------------|------------------|---|------|------|
| 31053 | GE332MAX-N-42T | 2 | 99.0 | 0.87 |
| 71721 | GE332MAX-N-42T | 2 | 99.0 | 0.97 |
| 97657 | GE332MAX-N/CTR | 2 | 99.0 | 0.87 |
| 71720 | GE332MAX-N/CTR | 2 | 99.0 | 0.97 |
| 23941 | GE332MAX-N-DIY | 2 | 99.0 | 0.87 |
| 71722 | GE332MAX-N-DIY | 2 | 99.0 | 0.97 |
| 71719 | GE332MAX-N/ULTRA | 2 | 99.0 | 0.97 |
| 49773 | GE332MAX-N/ULTRA | 2 | 99.0 | 0.87 |
| 30199 | GE-332-MV-H | 2 | 99.0 | 1.27 |
| 30296 | GE-332-MV-H-42T | 2 | 99.0 | 1.27 |
| 30255 | GE-332-MV-L | 2 | 99.0 | 0.87 |
| 30192 | GE-332-MV-N | 2 | 99.0 | 0.96 |
| 30270 | GE-332-MV-N-42T | 2 | 99.0 | 0.96 |
| 97710 | GE-332MV-N-DIY | 2 | 99.0 | 0.96 |
| 29676 | GE-332-MVPS-H | 2 | 98.0 | 1.28 |
| 96721 | GE332-MVPS-L | 2 | 98.0 | 0.77 |
| 96715 | GE332-MVPS-N | 2 | 98.0 | 0.98 |
| 29672 | GE-332-MVPS-XL | 2 | 98.0 | 0.64 |
| 23675 | GE-432-120-N | 3 | 0.94 | 0.94 |
| 24167 | GE-432-120-N-84T | 3 | 99.0 | 0.94 |
| 29625 | GE-432-120-PS-N | 3 | 99.0 | 0.96 |
| 29635 | GE-432-120PS-N-T | 3 | 99.0 | 0.96 |
| 97783 | GE432-120-RES | 3 | 5.0 | 0.88 |
| 71038 | GE432-120RES-DIY | 3 | 5.0 | 0.88 |
| 23676 | GE-432-277-N | 3 | | 0.94 |
| 24168 | GE-432-277-N-84T | 3 | 99.0 | 0.94 |
| 71724 | GE432MAX-H-42T | 3 | 99.0 | 1.28 |
| 49777 | GE432MAX-H/ULTRA | 3 | 99.0 | 1.15 |
| 71723 | GE432MAX-H/ULTRA | 3 | 99.0 | 1.28 |
| 71726 | GE432MAX-L-42T | 3 | 99.0 | 0.88 |
| 71725 | GE432MAX-L/ULTRA | 3 | 99.0 | 0.88 |
| 71423 | GE432MAX-N+ | 3 | 99.0 | 1.15 |
| 31054 | GE432MAX-N-42T | 3 | 99.0 | 0.87 |
| 97658 | GE432MAX-N/CTR | 3 | 99.0 | 0.87 |
| 71728 | GE432MAX-N/CTR | 3 | 99.0 | 0.94 |
| 71730 | GE432MAX-N-DIY | 3 | 99.0 | 0.94 |
| 49774 | GE432MAX-N/ULTRA | 3 | 99.0 | 0.87 |

| | | | | |
|-----------------------|------------------|---|------|------|
| 71727 | GE432MAX-N/ULTRA | 3 | 99.0 | 0.94 |
| 30219 | GE-432-MV-H | 3 | 99.0 | 1.24 |
| 30262 | GE-432-MV-L | 3 | 99.0 | 0.87 |
| 30193 | GE-432-MV-N | 3 | 99.0 | 0.93 |
| 30271 | GE-432-MV-N-42T | 3 | 99.0 | 0.93 |
| 97711 | GE-432MV-N-DIY | 3 | 99.0 | 0.93 |
| 29678 | GE-432-MVPS-H | 3 | 98.0 | 1.26 |
| 29657 | GE-432-MV-PS-H-T | 3 | 98.0 | 1.26 |
| 71832 | GE432-MVPS-L | 3 | 0.98 | 0.71 |
| 96716 | GE432-MVPS-N | 3 | 98.0 | 0.96 |
| 71497 | GE632MAX-H90-S60 | 6 | 0.99 | 1.25 |
| 71502 | GE632MAXH90-S60T | 6 | 0.99 | 1.25 |
| 71731 | GE632MAX-H90-V60 | 6 | 0.99 | 1.25 |
| 71732 | GE632MAXH90-V60T | 6 | 0.99 | 1.25 |
| 87125 | GEM232T8RS120 | 2 | 98.0 | 0.94 |
| 87130 | GEM232T8RS277 | 2 | 98.0 | 0.98 |

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