

V-51® Incandescent Luminaires

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit. Fixtures suitable for use in wet locations. †

NEC:
Class I, Division 2, Groups A, B, C, D

CSA: ‡
Class I, Division 2, Groups A, B, C, D
Class II, Divisions 1 and 2, Groups E, F, G †
Class III
Enclosure 3R

Applications

- Enclosed and gasketed lighting fixtures for use in storage areas, tunnels, subways, chemical plants and other areas where moisture, dirt or corrosive atmospheres are a problem.
- Suitable for use in wet locations.
- Standard fixtures designed for 60 to 300 W medium base incandescent lamps.
- Available in pendant, 45° stanchion, and a variety of ceiling and wall mountings.

Features

- Furnished with connection block for easy wiring.
- Unitized construction reduces installation and maintenance costs.
- Shock-absorbing porcelain socket for longer lamp life.
- Neoprene rubber ring in neck of reflector snaps into groove of mounting hood – protects against vibration and chipping.
- Guard snaps into two recesses of adapter – no clamps or setscrews.
- Maximum input voltage 150 V.

Standard Materials

- Mounting hoods: malleable iron
- Globe adapters: malleable iron
- Socket: porcelain with brass screw shell
- Globes: glass. Optional globes in polycarbonate plastic 100 W Max
- Guards: steel
- Reflectors: porcelain enamel steel

Standard Finishes

- Malleable iron mounting hood and globe adapter: triple coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel guard: zinc electroplate
- Steel reflectors: white porcelain enamel
- Socket and globes: natural finish

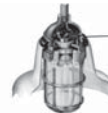
Options

- To order fixture with other than standard clear glass globe, add suffix letters to catalog number as indicated in table, and adjust difference in price.

| Color | Glass Globe | Plastic Globe |
|----------------------|-------------|---------------|
| Amber | -AM | -PAM |
| Blue | -BL | -PBL |
| Green | -GR | -PGR |
| Red | -RE | -PRE |
| Clear Heat-Resistant | -HR | — |

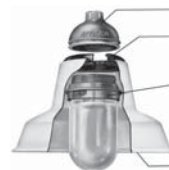


Illustrated Features



Cut-Away View

Connection block is easily removed (loosen two screws) to permit quick wiring.



Mounting Hood

Available in pendant (shown), ceiling, wall and 45° stanchion. Pendant has setscrew to prevent fixture from turning on stem.

Neoprene Ring

Neoprene attachment ring secures reflector to mounting hood – no tools needed.

Globe Adapter

When adapter is threaded onto mounting hood, the socket makes electrical contact with connection block in mounting hood. Available in malleable iron (VAD-1M and VAD-2M)

Porcelain Enamel Reflectors

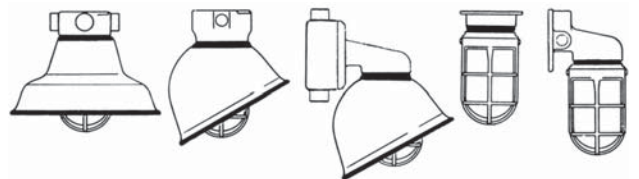
Standard and 30° angle.



Guard

Two sealed ball plunger units snap quickly, easily and securely into cavities of globe adapter. Guard can be used with or without a reflector.

Guard and Reflectors



Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

† 300 W PS-25 NOT approved for Class II, Division 1 and 2, Group G; Class III.

‡ With heat-resistant glass globes or plastic globes.

‡ CSA Certification only.

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Class III
Enclosure 3R

Class I, Division 2, Groups A, B, C, D

Fixture is suitable for Class I, Division 2 where the fixture operating temperature does not exceed the ignition temperature of the atmosphere in which fixture is installed.

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

Supply Wire: 257 °F/125 °C

| “T” Number | T1 | 350 | 325 | T2 | T2A | T2B | T2C | T2D | T3 | T3A | T3B | T3C | T4 | T4A | T5 | T6 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
| Temp. Range (°F) | 664-842 | 619-662 | 574-617 | 538-572 | 502-536 | 448-500 | 421-446 | 394-419 | 358-392 | 331-356 | 322-329 | 277-320 | 250-275 | 214-248 | 187-212 | 185 |
| Temp. Range (°C) | 351-450 | 326-350 | 301-325 | 281-300 | 261-280 | 231-260 | 216-230 | 201-215 | 181-200 | 166-180 | 161-165 | 136-160 | 121-135 | 101-120 | 86-100 | 85 |

Class I, Division 2, Groups A, B, C, D

| Reflector | 60–150 W | | 200–300 W | |
|---------------|---------------|----------------|----------------|----------------|
| | A-21 100 W | PS-25 150 W | PS-30 200 W | PS-30 300 W |
| None | T3 | T2D | T2C | 325 |
| Standard Dome | T2D | T2C | T2B | 325 |
| 30° Angle | T2C | T2C | T2B | 325 |

Fixture Ambient Suitability: Class I, Division 2, Groups A, B, C, D

| Areas | °F | °C | Fixture | Watts |
|----------------|-----|----|---------|-----------|
| Non-Classified | 167 | 75 | A-23 | 60 to 300 |
| Classified | 104 | 40 | PS-30 | 60 to 300 |

Fixture Ambient Suitability: Class II, Groups E, F, G; Class III; Enclosure 4X

LIGHTING: ENCLOSED AND GASKETED — AREA — INCANDESCENT

Lighting

† 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

‡ With heat-resistant glass globes or plastic globes.

†† CSA Certification only.





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Class II, Divisions 1 and 2, Groups E, F, G †
Class III
Enclosure 3R

| Malleable Mounting Hood, Adapter and Guard | Type | Lamp Watts | Size (Inches) | All Malleable with Guard | | | |
|---|---------|------------|--|--------------------------|--------|--|----------|
| Pendant | | | | | | | |
|  | A-21 | 60-150 | 1/2 | VA1050G-M | | | |
| | | | 3/4 | VA1075G-M | | | |
| | | | 1 | VA1100G-M | | | |
| | | | 1-1/4 | VA1125G-M | | | |
| | PS-30 | 150-300 | 1/2 | VA2050G-M | | | |
| | | | 3/4 | VA2075G-M | | | |
| | | | 1 | VA2100G-M | | | |
| | | | 1-1/4 | VA2125G-M | | | |
| Ceiling — Five Tapped Openings — Four close-up plugs | | | | | | | |
|  | A-21 | 60-150 | 1/2 | VXHA1050G-M | | | |
| | | | 3/4 | VXHA1075G-M | | | |
| | | | 1 | VXHA1100G-M | | | |
| | | | 1/2 | VXHA2050G-M | | | |
| | PS-30 | 150-300 | 3/4 | VXHA2075G-M | | | |
| | | | 1 | VXHA2100G-M | | | |
| | | | Wall — JB Box Mounting ② — Fits JB cast outlet box ③ — Screws and gasket furnished with fixture | | | | |
| | | |  | A-21 | 60-150 | | JBW10G-M |
| PS-30 | 150-300 | | | JBW20G-M | | | |
| Ceiling — JB Box Mounting ② — Fits JB cast outlet box ③ — Screws and gasket furnished with fixture | | | | | | | |
|  | A-21 | 60-150 | | JB10G-M | | | |
| | PS-30 | 150-300 | | JB20G-M | | | |

† 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

‡ With heat-resistant glass globes or plastic globes.

① To order fixtures without guards, omit G suffix from catalog number. Order reflectors and accessories separately.

② 30° angle reflector adaptable for 100 W fixture only, when mounted at least 4.5"/114.3 mm from wall.

③ JB cast outlet box is available in the Fitting Section.

v† CSA Certification only.










LIGHTING: ENCLOSED AND GASKETED — AREA — INCANDESCENT

Lighting

V-51® Incandescent Luminaire Accessories

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit.

| Description | Hub Size (Inches) | Catalog Numbers Malleable Iron |
|--|-------------------|-----------------------------------|
| Pendant and Ceiling Mounting Hoods — Furnished with connection block, gasket and screws | | |
| Pendant Mounting | | |
|  | 1/2 | VA50 |
| | 3/4 | VA75 |
| | 1 | VA100 |
| | 1-1/4 | VA125 |
| Dead-End — Ceiling Mounting | | |
|  | 1/2 | V50 |
| | 3/4 | V75 |
| Feed-Thru — Ceiling Mounting | | |
|  | 1/2 | VC50 |
| | 3/4 | VC75 |
| Three Hubs — Ceiling Mounting | | |
|  | 1/2 | VT50 |
| | 3/4 | VT75 |
| Four Hubs — Ceiling Mounting | | |
|  | 1/2 | VX50 |
| | 3/4 | VX75 |
| Five Hubs — Ceiling Mounting ① | | |
|  | 1/2 | VXHA50 |
| | 3/4 | VXHA75 |
| | 1 | VXHA100 |
| Wall and Stanchion Mounting Hoods — Furnished with connection block, gasket and screws | | |
| One Opening — Wall Mounting ② — 1 tapped hole in center of flange | | |
|  | 1/2 | VGA50 |
| | 3/4 | VGA75 |
| Feed-Thru — Wall Mounting ② — 2 tapped vertical feed-thru hubs | | |
|  | 1/2 | VD50 |
| | 3/4 | VD75 |
| Three Hubs and One Opening — Wall Mounting ② — 3 hubs plus 1 tapped opening in center of flange | | |
|  | 1/2 | VGAT50 |
| | 3/4 | VGAT75 |













① Four close-up plugs furnished.

② Mounting hoods for wall installations can only be used with 30° angle reflectors.

V-51® Incandescent Luminaire Accessories

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit.

| Wall | Ceiling | Type | Catalog Numbers Malleable Iron | |
|---|---|---|-----------------------------------|-----------------------------------|
| Wall and Ceiling Outlet Box Mounting Hoods | | | | |
|  |  | SEH ① and 3-1/4" or 4" Octagonal Outlet Box Mounting ② for Non-Classified Areas Only | | |
| | | Wall ③ | OBVW1 | |
| | | Ceiling | OBV1 | |
|  |  | GS Round Base Outlet Box Mounting – Form 20 ① | | |
| | | Wall ③ | GSW2 | |
| | | Ceiling | GS2 | |
|  |  | JB Round Base Outlet Box Mounting ① | | |
| | | Wall ③ | JBW1 | |
| | | Ceiling | JB1 | |
| A21 | PS30 | Type | Lamp Watts | Catalog Numbers Malleable Iron |
| Fixture Units | | | | |
|  |  | Adapter/Socket, Globe and Guard | | |
| | | A21 | 60-150 | VU100M |
| | | PS30 | 150-300 | VU200M |
|  |  | Adapter/Socket and Globe | | |
| | | A21 | 60-150 | VU100MLG |
| | | PS30 | 150-300 | VU200MLG |
|  |  | Adapter/Socket | | |
| | | A21 | 60-150 | VAD-1M ④ |
| | | PS30 | 150-300 | VAD-2M ④ |





LIGHTING: ENCLOSED AND GASKETED – AREA – INCANDESCENT

Lighting

V-51® Incandescent Luminaire Accessories

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit.

| | | | | | Catalog Numbers | |
|---|---|----------------------|------------|------------------|------------------------------|--------------|
| | | Type | Lamp Watts | Glass — 60-150 W | Polycarbonate — 100 W Max. ① | |
| Glass and Polycarbonate Globes — 60-150 W | | | | | | |
|  |  | Clear | | VGL-1CL | VPG-1CL | |
| | | Amber | | VGL-1AM | VPG-1AM | |
| | | Blue | | VGL-1BL | VPG-1BL | |
| | | Green | | VGL-1GR | VPG-1GR | |
| | | Opal | | VGL-1OP | — | |
| | | Red | | VGL-1RE | VPG-1RE | |
| 60 W-150 W Glass | 100 W Polycarbonate | Clear Heat-Resistant | | VGL-1HR | — | |
| Glass Globes — 150-300W | | | | | | |
|  | | Clear | | VGL-2CL | — | |
| | | Amber | | VGL-2AM | — | |
| | | Blue | | VGL-2BL | — | |
| | | Green | | VGL-2GR | — | |
| | | Opal | | VGL-2OP | — | |
| | | Red | | VGL-2RE | — | |
| | | Clear Heat-Resistant | | VGL-2HR | — | |
| Steel Wire Guards ② | | | | | | |
|  | | A21 | ⑤ | 60-150 | | VWG-1 |
| | | PS30 | ⑥ | 150-300 | | VWG-2 |
| | | | | | | VWG-1 |

① Do not use in ambients exceeding 77 °F/25° C. For burning in base-up position only.

② Cannot be used with polycarbonate globes.

③ Fits VAD-1 Adapter)

④ Fits VAD-2 Adapter)









⑤ Fits VAD-1M Adapter)

⑥ Fits VAD-2M Adapter)

V-51® Incandescent Luminaire Accessories

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit.

| Description | Type | Lamp Watts | Catalog Number |
|---|------|------------|----------------|
| Porcelain Reflectors — Furnished with neoprene attaching ring | | | |
| Standard Dome | | | |
|  | A21 | 60-150 | VRW-1ST |
| | PS30 | 150-300 | VRW-2ST |
| 30° Angle | | | |
|  | A21 | 60-150 | VRW-1AN |
| | PS30 | 150-300 | VRW-2AN |
| Replacement Reflector Attaching Ring — Neoprene | | | |
|  | | | VPT-8 |
| Connection Block | | | |
|  | | | VPT-7 |
| Lamp Socket — Medium Base | | | |
|  | | | VPT-1AV |
| Gasket for Lamp Socket and 60-150 W Globe | | | |
|  | | | VPT-2 |
| Gasket for 150-300 W Globe | | | |
|  | | | VPT-3 |
| Gasket for Mounting Hood | | | |
|  | | | VPT-4 |

LIGHTING: ENCLOSED AND GASKETED — AREA — INCANDESCENT

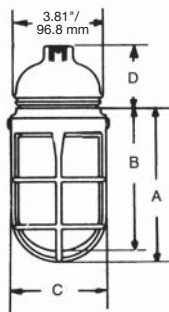
Lighting

V-51[®] Incandescent Luminaire Dimensions

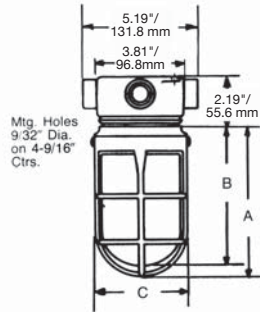
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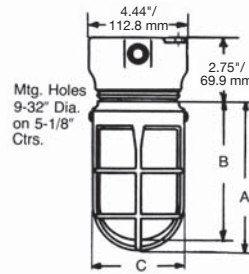
Dimensions in Inches/Millimeters



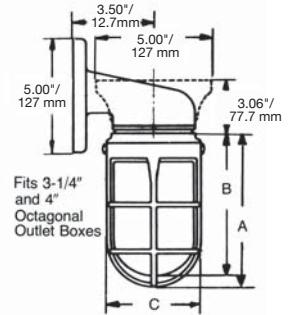
Type VA



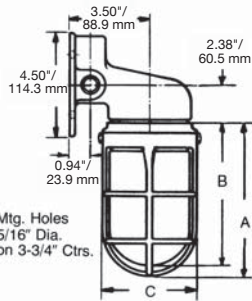
Types V, VC, VT and VX



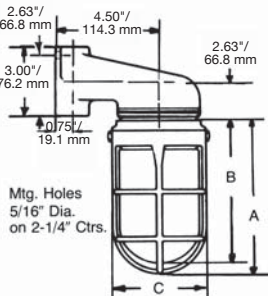
Type VXHA



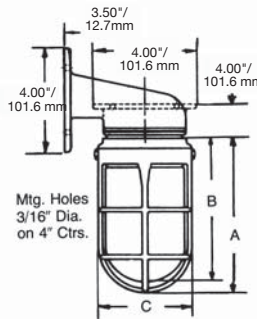
Types OBV and OBVW



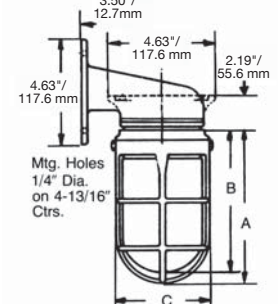
Types VGA and VGAT



Type VD



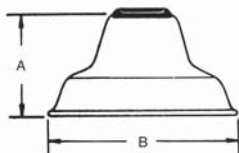
Types JB and JBW



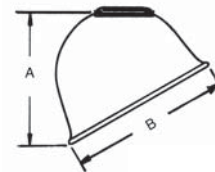
Types GS and GSW

| Size | A | B | C | 1/2 & 3/4 D | 1 & 1-1/4 D |
|-----------|------------|------------|------------|----------------|----------------|
| 60-150 W | 6.38/162.1 | 5.75/146.1 | 4.19/106.4 | 2.63/66.8 | 2.89/73.4 |
| 150-300 W | 9.50/241.3 | 8.63/219.2 | 5.69/144.5 | 2.63/66.8 | 2.89/73.4 |

Reflectors



Standard Dome



30° Angle

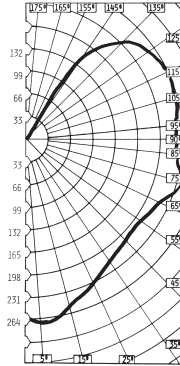
| Size | Standard Dome | | 30 Angle | |
|-----------|---------------|-------------|-------------|-------------|
| | A | B | A | B |
| 60-150 W | 6.19/157.2 | 12.00/304.8 | 8.09/205.5 | 10.00/254.0 |
| 150-300 W | 8.88/225.6 | 16.00/406.4 | 11.59/294.4 | 12.00/304.8 |

V-51® Incandescent Luminaire Photometric Data

Enclosed and Gasketed

UNILETS® for use with threaded metal conduit. Full-size photometric data available for all V-51® fixtures on request.

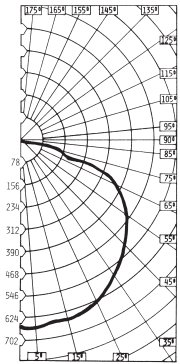
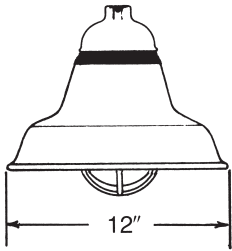
Without Reflector



Effective Floor Cavity Reflectance (Rfc) is 20%

| % Ceiling Rcc | Rw | 80 | | 70 | | 50 | | 30 | | 10 | | 0 | | | | | |
|--------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| ROOM CAVITY RATIOS | 1 | .815 | .765 | .721 | .755 | .711 | .668 | .642 | .608 | .577 | .539 | .513 | .489 | .444 | .424 | .406 | .360 |
| | 2 | .690 | .619 | .558 | .639 | .575 | .521 | .542 | .492 | .449 | .452 | .414 | .380 | .370 | .341 | .315 | .273 |
| | 3 | .595 | .515 | .450 | .551 | .478 | .421 | .467 | .410 | .362 | .388 | .344 | .307 | .316 | .282 | .252 | .215 |
| | 4 | .523 | .439 | .374 | .485 | .409 | .350 | .411 | .351 | .303 | .343 | .296 | .257 | .279 | .242 | .212 | .178 |
| | 5 | .457 | .376 | .313 | .426 | .350 | .292 | .362 | .300 | .254 | .302 | .253 | .215 | .246 | .208 | .177 | .147 |
| | 6 | .409 | .326 | .266 | .378 | .303 | .248 | .322 | .261 | .215 | .269 | .220 | .183 | .220 | .180 | .150 | .123 |
| | 7 | .364 | .283 | .229 | .338 | .264 | .213 | .288 | .226 | .184 | .240 | .192 | .155 | .198 | .158 | .128 | .104 |
| | 8 | .329 | .251 | .197 | .305 | .234 | .185 | .260 | .202 | .160 | .220 | .171 | .136 | .179 | .141 | .112 | .090 |
| | 9 | .298 | .223 | .171 | .277 | .208 | .161 | .237 | .180 | .140 | .199 | .152 | .119 | .164 | .126 | .098 | .078 |
| | 10 | .271 | .198 | .152 | .251 | .187 | .142 | .216 | .161 | .123 | .182 | .137 | .104 | .151 | .113 | .086 | .068 |

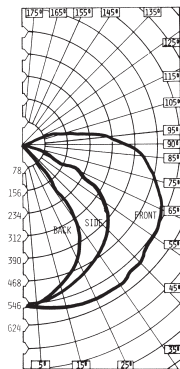
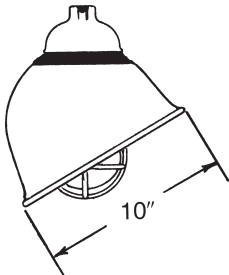
Standard Dome



Effective Floor Cavity Reflectance (Rfc) is 20%

| % Ceiling Rcc | Rw | 80 | | 70 | | 50 | | 30 | | 10 | | 0 | | | | | |
|--------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | |
| ROOM CAVITY RATIOS | 1 | .803 | .772 | .744 | .784 | .756 | .731 | .750 | .726 | .706 | .718 | .701 | .683 | .691 | .675 | .661 | .645 |
| | 2 | .705 | .656 | .614 | .690 | .645 | .608 | .661 | .624 | .591 | .636 | .605 | .576 | .612 | .586 | .562 | .546 |
| | 3 | .618 | .558 | .511 | .606 | .550 | .506 | .583 | .535 | .495 | .560 | .520 | .486 | .540 | .506 | .476 | .460 |
| | 4 | .549 | .484 | .434 | .538 | .478 | .430 | .518 | .465 | .423 | .499 | .454 | .417 | .482 | .442 | .410 | .393 |
| | 5 | .485 | .416 | .366 | .475 | .411 | .363 | .459 | .401 | .359 | .442 | .392 | .354 | .427 | .384 | .349 | .333 |
| | 6 | .431 | .362 | .314 | .423 | .358 | .310 | .408 | .350 | .307 | .394 | .343 | .304 | .382 | .335 | .299 | .284 |
| | 7 | .384 | .316 | .270 | .377 | .311 | .267 | .364 | .304 | .263 | .351 | .299 | .260 | .341 | .294 | .257 | .242 |
| | 8 | .347 | .281 | .234 | .340 | .278 | .233 | .329 | .272 | .231 | .319 | .267 | .229 | .309 | .262 | .226 | .212 |
| | 9 | .314 | .249 | .204 | .309 | .246 | .204 | .299 | .242 | .202 | .289 | .237 | .200 | .281 | .233 | .198 | .184 |
| | 10 | .284 | .221 | .181 | .279 | .221 | .181 | .271 | .216 | .179 | .263 | .212 | .176 | .257 | .209 | .174 | .161 |

30° Angle



Photometric data shown on this page is based on a 150 Watt PS-25 lamp and is representative of the performance for all V-51 incandescent fixtures. For candlepower values of fixtures with other lamps, multiply the given candlepower values by the following multipliers: for 60 W – A19 X 0.33; for 75 W – A19 X 0.45; for 100 W – A19 X 0.66; for 200 W – PS25 X 1.44; and for 300 W – PS30 X 2.32. For candlepower values of fixture with guard, multiply by 0.90.

LIGHTING: ENCLOSED AND GASKETED – AREA – INCANDESCENT

Lighting