

VERBENA V4

4" Suspended Direct or Indirect Linear



Indirect Orientation

Specification Features

- Triangular lens form factor with 145LPW direct or 165LPW indirect widespread illumination
- Enhanced lighting pattern with 6% contribution past nadir
- Minimalistic profile with overall height less than 1 1/2" with triangular lens
- Integral suspension and power cable with singular adjustment mechanism
- Triangular lens form factor with up to 2000lm/ft or 2300lm/ft indirect widespread illumination
- Milled X, T, Y, 90°, 120°, 135° connectors, and a direct-to-indirect alternating joint



Example Part #: V4D-A-830HO-26'-CAC48JB-U-FSD-1-0-W

V4_ - **HOUSING** - **SHIELDING** - **CRI, CCT & OUTPUT** - **LENGTH OR PATTERN** - **MOUNTING** - **VOLTAGE** - **DRIVER** - **CIRCUITING** - **BATTERY & EMERGENCY** - **FINISH**

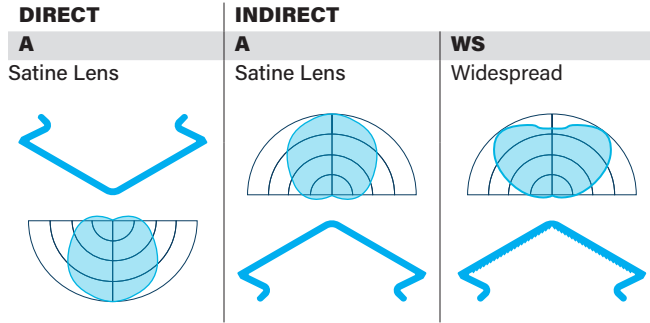
| V4_ | | | |
|---|---|---|--|
| HOUSING | SHIELDING | CRI, CCT & OUTPUT¹ | LENGTH OR PATTERN² |
| V4D - VerbenA 4 Direct V4I - VerbenA 4 Indirect <i>Housing pg. 2</i> | A - Satine Lens WS - Widespread Lens <i>Shielding pg. 2</i> | _27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i> | _ - Individual Fixture _ - Continuous Row S - Square H - Hexagon O - Octagon R_x - Rectangle L_x - L-Shape U_x_x - U-Shape Y_x_x - Y-Shape T_x_x - T-Shape X_x_x_x - X-Shape <i>Length and Pattern pg. 2-3</i> |
| <i>Use page 7 to draw out the pattern.</i> | | | |
| MOUNTING³ | VOLTAGE | REMOTE DRIVER | CIRCUITING |
| CAC_ _G_ - Conductive AC to Grid CAC_ _JB - Conductive AC to J Box WA - Wall Mount (<i>Direct only</i>) S - Surface Mount (<i>Direct only</i>) <i>Mounting pg. 3</i> | U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i> | FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - Osram (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 4</i> | 1 - Single Circuit E - Emergency (<i>entire fixture</i>) N - Night Light (<i>entire fixture</i>) <i>Circuiting pg. 4</i> |
| | | | |
| BATTERY & EMERGENCY⁴ | FINISH | CONTROLS | |
| 0 - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GI - Iota ETS DR _GB - Bodine GTD _ILL - Iota 10W (<i>remote</i>) _PLL - Bodine 10W (<i>remote</i>) _E - Emergency Section _N - Night Light Section <i>Battery and Emergency pg. 5</i> | W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i> | Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information. | |

¹When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending _ _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in 1', 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row comes in 1' increments. When specifying patterns specified length will be fixture length. Patterns will be longer than specified length. ³Specify CAC length standard CAC is 48" Example: CAC48JB. Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: CAC48G1. Connectors are not available with **S** - Surface mount, or **WA** - Wall mount options. ⁴Enter quantity for Battery and Emergency, Example 1PLL.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



Shielding



Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

| | | |
|-----------------|---|---|
| CL _____ | Specify CRI, CCT and desired lumens (i.e. CL835500) | Total Max lumens: A Lens- 2,012, WS Lens- 2,330. Max lumens dependant on color temp. Consult factory for more information |
| CW _____ | Specify CRI, CCT and desired wattage (i.e. CW9407) | Total Max watts: 14.8. Consult factory for more information |

80 CRI

| | Color | Output | Lumens per foot | Shielding A Satine Lens | | WS Widespread | |
|--------------|-------|--------|--------------------|--------------------------------------|----------|-------------------------|----------|
| | | | | LPW | Watts/ft | LPW | Watts/ft |
| 830LO | 3000K | Low | 500 | 142 | 3.5 | 162 | 3.1 |
| 830MO | 3000K | Medium | 750 | 141 | 5.3 | 161 | 4.7 |
| 830HO | 3000K | High | 1000 | 141 | 7.1 | 159 | 6.3 |
| 835LO | 3500K | Low | 500 | 146 | 3.4 | 166 | 3.0 |
| 835MO | 3500K | Medium | 750 | 145 | 5.2 | 165 | 4.5 |
| 835HO | 3500K | High | 1000 | 145 | 6.9 | 164 | 6.1 |
| 840LO | 4000K | Low | 500 | 148 | 3.4 | 168 | 3.0 |
| 840MO | 4000K | Medium | 750 | 147 | 5.1 | 168 | 4.5 |
| 840HO | 4000K | High | 1000 | 146 | 6.9 | 167 | 6.0 |

90 CRI

| | | | | | | | |
|--------------|-------|--------|------|-----|-----|-----|-----|
| 927LO | 2700K | Low | 500 | 114 | 4.4 | 132 | 3.8 |
| 927MO | 2700K | Medium | 750 | 112 | 6.7 | 131 | 5.7 |
| 927HO | 2700K | High | 1000 | 111 | 9.0 | 131 | 7.7 |
| 930LO | 3000K | Low | 500 | 117 | 4.3 | 137 | 3.7 |
| 930MO | 3000K | Medium | 750 | 116 | 6.5 | 135 | 5.5 |
| 930HO | 3000K | High | 1000 | 115 | 8.7 | 135 | 7.4 |
| 935LO | 3500K | Low | 500 | 119 | 4.2 | 139 | 3.6 |
| 935MO | 3500K | Medium | 750 | 118 | 6.4 | 137 | 5.5 |
| 935HO | 3500K | High | 1000 | 117 | 8.5 | 137 | 7.3 |
| 940LO | 4000K | Low | 500 | 123 | 4.1 | 143 | 3.5 |
| 940MO | 4000K | Medium | 750 | 121 | 6.2 | 141 | 5.3 |
| 940HO | 4000K | High | 1000 | 120 | 8.3 | 141 | 7.1 |

Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- End caps add 2-1/2" (1-1/4" per end) to the overall length of the fixture/row, end caps do not add to the mounting distance
- For patterns, refer to Pattern section on next page

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|
| Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Indiv. Fixture | Cont. Run Specify nominal overall row length to the 1' |
| 12" (304.8mm) | | | | | | | | |
| 24" (609.6mm) | | | | | | | | |
| 36" (914.4mm) | | | | | | | | |
| 48" (1219.2mm) | | | | | | | | |
| 60" (1524mm) | | | | | | | | |
| 72" (1828.8mm) | | | | | | | | |
| 84" (2133.6mm) | | | | | | | | |
| 96" (2438.4mm) | | | | | | | | |

Specify to the 1' >>>>

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V4_LED_SPEC_APRIL2023

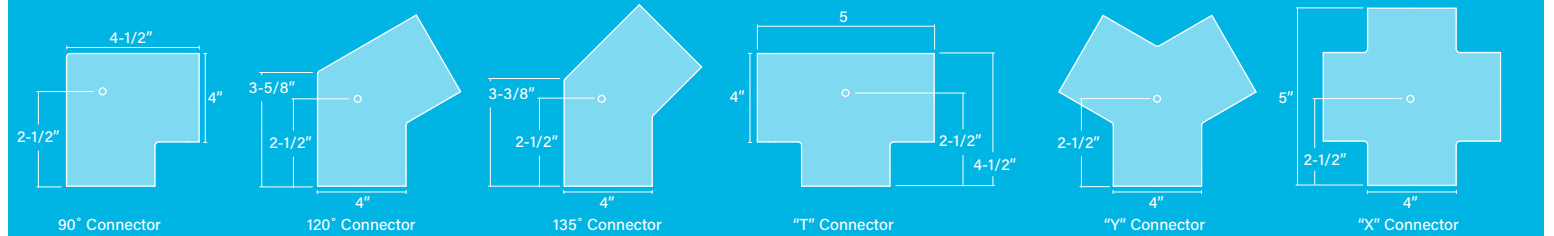


Patterns

- Specify pattern shape and requested fixture length
- Length specified will not reflect overall pattern dimensions
- Angles and shapes not shown require Mod Pattern; consult factory
- All connectors are NON ILLUMINATED
- Minimum length for any single part of a pattern is 2'
- All lengths are TO THE FOOT ONLY
- Driver/Battery Count dictated by product configuration
- Our in house milling capabilities enable the design and development of any non-standard connector.
- Example part number: V4D-A-835HO-Y8x6x8-CAC48JB-U-FSD-1-0-GR see resource guide for more information
- Patterns not available with WA or S mounting

| S_ | H_ | O_ | R_x_ | U_x_x_ | L_x_ | Y_x_x_ | T_x_x_ | X_x_x_x_ | MOD |
|---|--|--|---|--|---|--|--|---|---|
| Square Provide A dimension Example: S4' | Hexagon Provide A dimension Example: H4' | Octagon Provide A dimension Example: O4' | Rectangle Provide Ax B dimensions Example: R4'x4' | U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' | L-Shape Provide Ax B dimensions Example: L3'x3' | Y-Shape Provide Ax BxC dimensions Example: Y3'x3'x3' | T-Shape Provide Ax BxC dimensions Example: T3'x5'x3' | X-Shape Provide Ax BxCxD dimensions Example: X2'x5'x2'x5' | Multi Connector Layout For patterns other than shown, factory drawing and sign off required with all MODS |
| | | | | | | | | | |

Non-illuminated Connector Details



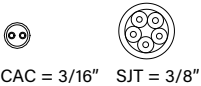
Mounting

- Specify cable length in ordering code (CAC48JB)
- Standard adjustable cable. Specify 48", 120", 240", or 350"
- End plates attached at factory
- Canopies and mounts match fixture finish. See Finish section for additional details.

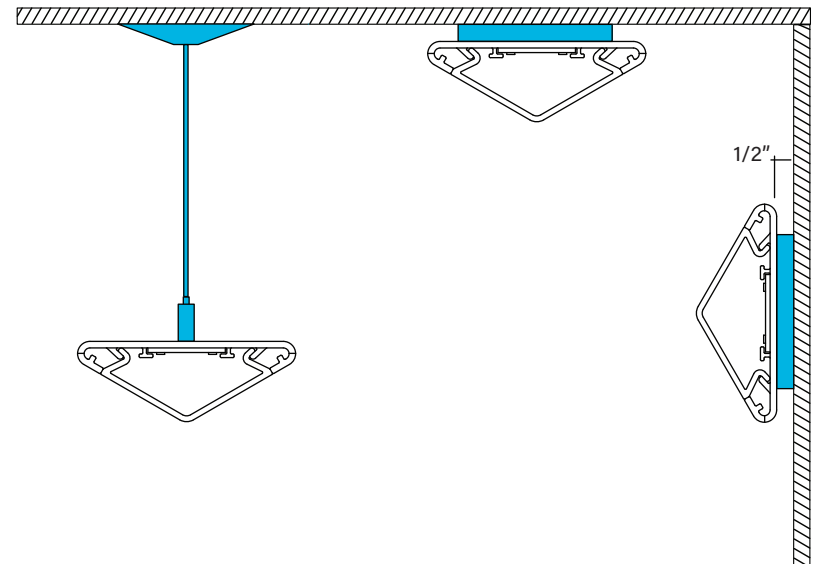
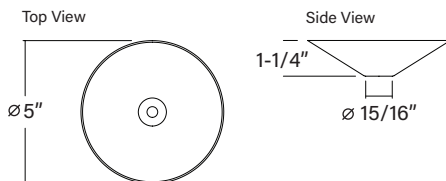
| | |
|----------------|---|
| CAC__G_ | Conductive AC to Grid (specify grid type: G1, G9, GS) |
| CAC__JB | Conductive AC to Junction Box |
| WA | Wall Mount (Direct Only, ADA compliant) |
| S | Surface Mount (Direct Only) |

CAC Canopy Details

- CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



- A larger power side canopy allows for adjustability of the CAC cable inside of the canopy.





Voltage

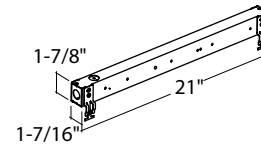
- Some VERBENA configurations will not accommodate all voltage options; consult with factory

| | |
|----------|-----------|
| U | Universal |
| 1 | 120 volt |
| 2 | 277 volt |
| 3 | 347 volt |

Remote Driver

- Driver/Battery Count dictated by product configuration
- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some VERBENA configurations will not accommodate all driver options; consult with factory
- All configurations with no PLL, ILL or Emergency Control Device options will use Slim Remote Box

Slim Remote Box



0-10V Drivers

| | |
|------------|---|
| FSD | Factory Select Driver (1%, 0-10v) |
| PL2 | Signify Advance Xitanium 1%, 0-10v |
| OL2 | Osram Optotronic, 1%, 0-10v |
| OL4 | Osram Optotronic 347v, 1% 0-10v, requires 347v option |
| EE1 | eldoLED ECOdrive 1%, 0-10v Logarithmic |
| EE2 | eldoLED ECOdrive 1%, 0-10v Linear |
| ES1 | eldoLED SOLOdrive 0-10v, 0.1% Logarithmic |
| ES2 | eldoLED SOLOdrive 0-10v, 0% Linear |

DALI Drivers

| | |
|------------|---|
| EE3 | eldoLED ECOdrive .1%, DALI (logarithmic) |
| ES3 | eldoLED SOLOdrive .1%, DALI (logarithmic) |

Lutron Drivers

| | |
|------------|---|
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| LH4 | Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only |

How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
 - Some VERBENA configurations will not accommodate all circuiting options, consult with factory

Circuiting

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |



- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section options below; factory shop drawing required
- Some VERBENA configurations will not accommodate all circuiting options, consult with factory
- Configurations with PLL or ILL or any Emergency control device will require standard remote box.

Battery and/or Emergency If Required

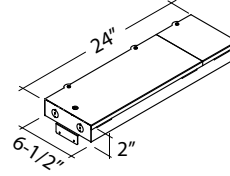
0 No battery or specific emergency section required

Battery

- Select battery section type if required, indicate total QTY. *Example 2PLL*
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Entire direct fixture housing is on battery for individual fixtures
- For more battery options available, see Pinnacle Resource Guide

| | |
|---------------|--|
| 0 | No Battery |
| _FSB | Factory Select Battery (10w option) |
| _FSBST | Factory Select Battery (10w, Self Testing) |
| _ILL | 10w Integral Lithium, Self Testing |
| _IRC | 10w Remote |
| _IRH | 20w Remote |
| _PRL | Bodine 7w Remote |
| _PRS | Bodine 7w Remote, Self Testing |
| _PRH | Bodine 20w Remote |
| _PLL | Bodine 10w Integral Lithium, Self Testing |
| _PRD | Bodine 10w Remote, Dual Flex |

Standard Remote Box



For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Emergency

- Select emergency section type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency section ordering codes if both options are selected
- Emergency circuiting sections are for use when specifying emergency options on continuous runs

| | |
|-------------|--|
| _FSG | Factory Select Automatic Load Control Relay (ALCR), UNV |
| _GI | Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV |
| _GB | Bodine GTD, Generator Transfer Device, 120v or 277v |
| _E | Emergency circuit |
| _N | Night Light circuit |
| _L | Life Safety circuit section NO THROUGH WIRE |

Battery OR Emergency Ordering Examples

- | | |
|--------------------------------|-----------------------|
| ▪ Single circuit, 10w Battery | Ordering Code: 1-1PLL |
| ▪ Emergency only, 10w Battery | Ordering Code: E-1PLL |
| ▪ Single circuit, GTD required | Ordering Code: 1-1G |

Combination Section Ordering Examples

- | | |
|--|-------------------------|
| ▪ Single circuit, (1) 10w battery, (1) emergency section | Ordering Code: 1-1PL1E |
| ▪ Multi circuit, (2) 10w battery, (2) emergency sections | Ordering Code: M-2PLL2E |
| ▪ Single circuit, (1) night light section | Ordering Code: 1-1N |

Finish

- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

| | |
|-----------|---|
| W | White (<i>white cord/white canopy</i>) |
| S | Metallic Silver (<i>grey cord/silver canopy</i>) |
| BL | Textured Black (<i>black cord/black canopy</i>) |
| BR | Bronze (<i>white cord/bronze canopy</i>) |
| GR | Graphite (<i>white cord/graphite canopy</i>) |
| CC | Custom Color (<i>white cord/CC canopy to match fixture</i>) |

Controls

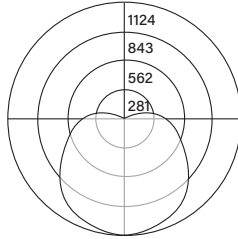
- Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.



Photometrics

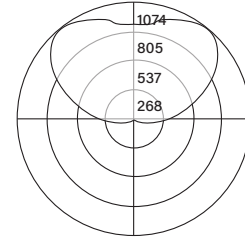
Satine Lens

Test # KPL2015-4
Catalog # V4D-A-N-40-4
Lumens 3854 Lm
Watts 27.9 W
Efficacy 138 LPW



Widespread Lens

Test # KPL2015-3
Catalog # V4I-N-WS-40-4
Lumens 3856 Lm
Watts 23.9 W
Efficacy 161 LPW



Candela Distribution

| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|------|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 0 | 1115 | 1115 | 1115 | 1115 | 1115 |
| 5 | 1108 | 1111 | 1110 | 1107 | 1108 |
| 10 | 1093 | 1095 | 1096 | 1094 | 1095 |
| 15 | 1069 | 1072 | 1073 | 1072 | 1073 |
| 20 | 1035 | 1038 | 1041 | 1042 | 1042 |
| 25 | 992 | 995 | 1000 | 1002 | 1003 |
| 30 | 941 | 945 | 953 | 956 | 957 |
| 35 | 883 | 886 | 895 | 901 | 902 |
| 40 | 817 | 820 | 831 | 842 | 843 |
| 45 | 743 | 747 | 763 | 775 | 777 |
| 50 | 666 | 671 | 689 | 705 | 708 |
| 55 | 581 | 589 | 613 | 634 | 638 |
| 60 | 492 | 503 | 535 | 565 | 570 |
| 65 | 402 | 410 | 459 | 521 | 527 |
| 70 | 307 | 336 | 408 | 478 | 485 |
| 75 | 216 | 254 | 362 | 433 | 440 |
| 80 | 133 | 196 | 313 | 386 | 393 |
| 85 | 68 | 148 | 264 | 335 | 342 |
| 90 | 14 | 104 | 213 | 283 | 290 |

Luminance Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 10392 | 8331 | 7968 |
| 55 | 9896 | 7475 | 7150 |
| 65 | 9110 | 6532 | 6835 |
| 75 | 7674 | 6250 | 6921 |
| 85 | 5963 | 6279 | 7174 |

Candela Distribution

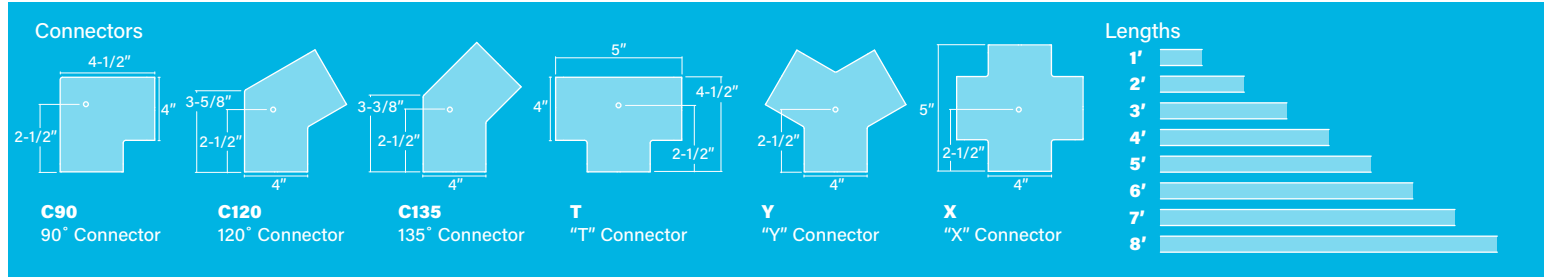
| Vert Angle | Horizontal Angle | | | | |
|------------|------------------|------|-----|------|------|
| | 0 | 22.5 | 45 | 67.5 | 90 |
| 90 | 12 | 88 | 198 | 242 | 244 |
| 95 | 40 | 131 | 265 | 313 | 316 |
| 100 | 87 | 184 | 338 | 389 | 390 |
| 105 | 145 | 242 | 412 | 473 | 475 |
| 110 | 212 | 311 | 490 | 560 | 568 |
| 115 | 285 | 387 | 573 | 646 | 650 |
| 120 | 358 | 461 | 662 | 731 | 737 |
| 125 | 428 | 536 | 746 | 824 | 830 |
| 130 | 500 | 607 | 818 | 911 | 917 |
| 135 | 573 | 674 | 877 | 981 | 990 |
| 140 | 641 | 732 | 918 | 1029 | 1040 |
| 145 | 703 | 782 | 942 | 1051 | 1062 |
| 150 | 759 | 825 | 956 | 1048 | 1059 |
| 155 | 811 | 861 | 961 | 1033 | 1041 |
| 160 | 855 | 890 | 960 | 1011 | 1017 |
| 165 | 889 | 910 | 954 | 984 | 989 |
| 170 | 914 | 924 | 945 | 959 | 962 |
| 175 | 930 | 934 | 938 | 940 | 942 |
| 180 | 936 | 936 | 936 | 936 | 936 |

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions



Multi Connector Layout

- Use the below to sketch your desired pattern. Available fixture and connectors are listed in the legend. Label your pattern components according to legend to simplify specification.
- Label the linear sections with length, and label the pattern with light direction, Direct (D) or Indirect (I) - entire pattern will be either direct or indirect, to change direction of light in pattern see V4AJ spec sheet. Cannot use connector with another connector.
- All lengths are TO THE FOOT ONLY.



A large grid of dots for sketching the desired pattern. The grid is 20 units wide and 20 units high, with dots spaced at 1/2 inch intervals.



Applications & Certificates

Construction: 6063-T6 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for maintenance.

Mounting: Conductive Aircraft cable, wall and surface mount available. Power mount supplied with conductive aircraft cable and oval 6-1/2" H x 4-1/4" W canopy. Non-power supplied with aircraft cable and 2" (50.8mm) canopy. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 10 lbs for a standard 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. Luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. L70 = 124,900 hours and L90 = 37,200 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Three lumen packages available. Low (LO), Medium (MO) and High (HO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 90 CRI = R9≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some VERBENA configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver option is Factory Selected Driver 0-10V, 1% = FSD. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 107°F/42°C. For more driver options, see Pinnacle Resource Guide. Some VERBENA configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N).

Remote Mounting Guide

Distance limited by max input watts shown.

| Max Distance | 56' (.53A) | 42' (.7A) | 28' (1.05A) | 20' (1.5A) | 12' (2A) |
|--------------|------------|-----------|-------------|------------|----------|
| 4' Housing | 4.0w/ft | 5.4w/ft | 8.1w/ft | 11.6w/ft | 17.2w/ft |
| 8' Housing | N/A | 2.6w/ft | 4.0w/ft | 5.8w/ft | 7.8w/ft |

For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some VERBENA configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Consult factory.

Labels: UL and cUL 2108 Listed. Low, Medium and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is **10 lbs** for a standard 4' fixture.

Buy American Act Compliant

Warranty: VERBENA offered with a 5-year limited warranty. Covers LED, driver and fixture.