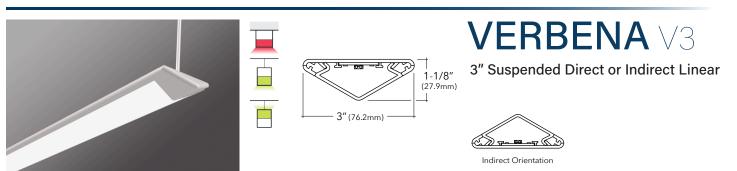
#### L Р NNA С Ε RCHITECTURAL LIGHTING

Project Name

Date

Туре



#### **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 #: V3D-A-830HO-26'-CAC48JB-U-FSD-1-0-W

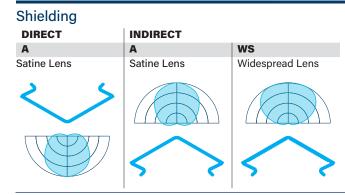
	NGTH OR MOUNTING VOLTAGE DRIVER	CIRCUITING BATTERY & FINISH EMERGENCY	
V3_			
HOUSING	SHIELDING	CRI, CCT & OUTPUT <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
<b>V3D</b> - Verbena 3 Direct <b>V3I</b> - Verbena 3 Indirect <i>Housing pg. 2</i>	<b>A</b> - Satine Lens <b>WS</b> - Widespread Lens <i>Shielding pg. 2</i>	<b>_27</b> 2700K <b>_30</b> 3000K <b>_35</b> 3500K <b>_40</b> 4000K <b>CL</b> Custom Lumens <b>CW</b> Custom Watts <i>Lumen Output pg. 2</i>	<pre></pre>
Use page 7 to draw out the pattern.			
MOUNTING <sup>3</sup>	VOLTAGE	REMOTE DRIVER	
ACG Conductive AC to Grid     U - Universal (120 thru 277V)       ACJB - Conductive AC to J Box     1 - 120V       YA - Wall Mount (Direct only)     2 - 277V       - Surface Mount (Direct only)     3 - 347V       voltage pg. 3     Voltage pg. 4		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) Driver pg. 4	<ul> <li>1 - Single Circuit</li> <li>E - Emergency (entire fixture)</li> <li>N - Night Light (entire fixture)</li> <li>Circuiting pg. 4</li> </ul>
BATTERY & EMERGENCY <sup>4</sup>	FINISH	CONTROLS	
0 - None _FSB - Factory Select Battery _FSG - Factory Select ALCR _GI - Iota ETS DR _GB - Bodine GTD _ILL - Iota 10W (remote) _PLL - Bodine 10W (remote) _E - Emergency Section _N - Night Light Section Battery and Emergency pg. 5	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.	

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. <sup>4</sup>Enter quantity for Battery and Emergency, Example 1PLL.

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#### Output

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

Custom Output - Lumens OR Wattage	
CL Specify CRI, CCT and desired lumens (i.e. CL835500)	Total Max lumens: A Lens- 2.044, WS Lens- 2,312. 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	

90 CRI = R9≥50

#### Color Lumens Shielding Output per foot A WS Satine Lens Widespread Lens LPW Watts/ft LPW Watts/ft 830LO 3000K 500 3.1 Low 142 3.5 161 3000K 830MO Medium 750 141 5.3 160 4.7 830HO 3000K 1000 141 158 6.3 High 7.1 835LO 3500K Low 500 146 3.4 164 3.0 835MO 3500K Medium 750 145 5.2 164 4.6 835HO 1000 145 163 6.1 3500K High 6.9 840LO 4000K 148 3.4 167 3.0 Low 500 4000K 840MO Medium 750 147 5.1 167 4.5 840HO 4000K High 1000 146 6.9 166 6.0 **90 CRI** 927LO 2700K Low 500 115 4.3 131 3.8 927MO 2700K Medium 750 114 6.6 130 5.8 927HO 2700K High 1000 113 8.8 129 7.8 930LO 3000K Low 500 119 4.2 136 3.7 930MO 3000K 118 Medium 750 6.4 134 5.6 930HO 3000K 1000 117 High 8.5 134 7.5 935LO 3500K 500 121 4.1 138 3.6 Low 935MO 3500K Medium 750 120 6.3 136 5.5 935HO 3500K High 1000 119 8.4 136 7.3

#### 940HO Length

940LO

940MO

All individual units cannot be joined, end plates are factory installed and cannot be removed

125

123

122

500

750

1000

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 mounting distance

4.0

6.1

8.2

142

140

140

For patterns, refer to Pattern section on next page

Low

High

Medium

4000K

4000K

4000K

		1 8				-		
1	2	3	4	5	6	7	8	-
Indiv. Fixture 12" (304.8mm)	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'						
	24 (003.01111)							
		36" (914.4mm)						
			48" (1219.2mm)					
				60" (1524mm)				
					72" (1828.8mm)			
						84" (2133.6mm)		
							96" (2438.4mm)	
								Specify to the 1'

3.5

5.3

7.1

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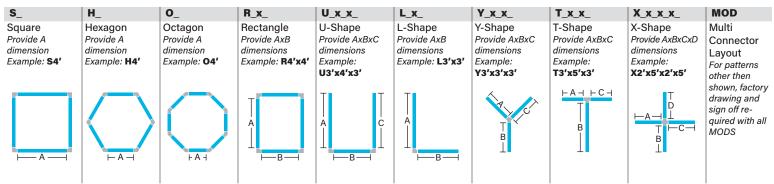
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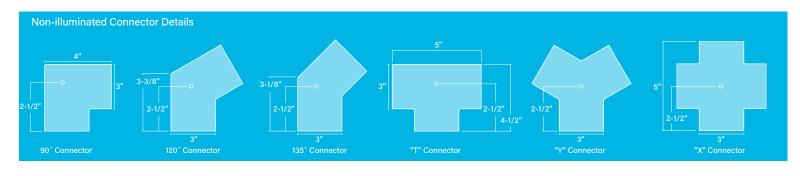


#### Patterns

- Specify pattern shape and requested fixture length
- Length spcified 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: V3D-A-835HO-Y8x6x8-AC48JB-U-FSD-1-0-GR see resource guide for more information
- Patterns cannot be used with S or WA mounting





### Mounting

- Specify cable length in ordering code (CAC48JB)
- 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.

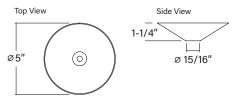
CAC G_	Conductive AC to Grid (specify grid type: G1, G9, GS)	
CACJB	Conductive AC to Junction Box	
WA	Wall Mount (Direct Only, ADA compliant, no patterns)	
S	Surface Mount (Direct Only, no patterns)	

#### CAC Canopy Details

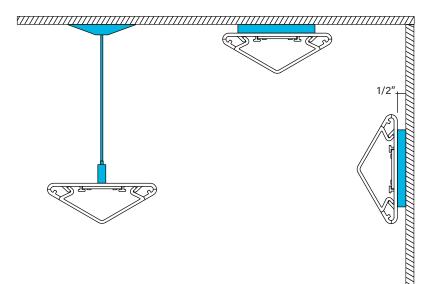
 CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



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



- Approved for dry/damp location unless otherwise noted
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 10 lbs for a standard 4' fixture
- Driver/Battery Count dictated by product configuration



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#### 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

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	
<b>DALI Drivers</b>		
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)	
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)	
Lutron Driver	s	
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only	

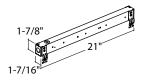
#### How to specify Circuiting, Battery and Emergency

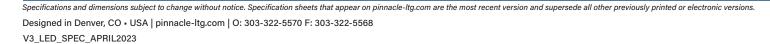
- Select fixture circuiting from options below
- Some VERBENA configurations will not accommodate all circuiting options, consult with factory

#### Circuiting

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

Slim Remote Box





### I N N A C L E CHITECTURAL LIGHTING®

## VERBENA V3 Suspended Linear





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



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	lota 10w Integral Lithium, Self Testing
_IRC	lota 10w Remote
_IRH	lota 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

#### Emergency

- Select emergency sectio
- Combine battery and em Emergency circuiting se
- options on continious ru

24"	$\langle \rangle$
	$\mathcal{I}$
6. J 2"	

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

ncy section type if required, indicate total QTY. <i>Example 1E</i> ry and emergency section ordering codes if both options are selected cuiting sections are for use when specifying emergency tinious runs	Battery OR Emergency Ordering Examples <ul> <li>Single circuit, 10w Battery</li> <li>Emergency only, 10w Battery</li> </ul>	Grdering Code: 1-1PLL Ordering Code: E-1PLL
Factory Select Automatic Load Control Relay (ALCR), UNV	<ul> <li>Single circuit, GTD required</li> </ul>	Ordering Code: 1-1GB
Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV		
Bodine GTD, Generator Transfer Device, 120v or 277v	Combination Section Ordering Examples	
Emergency circuit	<ul> <li>Single circuit, (1) 10w battery, (1) emergency section</li> </ul>	
Night Light circuit	Multi circuit, (2) 10w battery, (2) emergency sections	Ordering Code: M-2PLL2E
Life Safety circuit section NO THROUGH WIRE	<ul> <li>Single circuit, (1) night light section</li> </ul>	Ordering Code: 1-1N

#### Finish

FSG

GI

\_GB

\_E

N

п

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

#### Controls

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

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#### **PINNACLE** RCHITECTURAL LIGHTING<sup>®</sup> Р

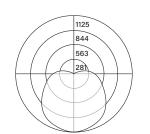
## VERBENA V3 Suspended Linear



#### **Photometrics**

#### Satine Lens





#### **Candela Distribution**

Vert Angle	Horizontal Angle					
	0	22.5	45	67.5	90	
0	1117	1117	1117	1117	1117	
5	1110	1114	1109	1109	1113	
10	1110	1114	1109	1109	1113	
15	1095	1099	1095	1096	1100	
20	1095	1099	1095	1096	1100	
25	1071	1074	1072	1073	1077	
30	1071	1074	1072	1073	1077	
35	1036	1041	1039	1042	1047	
40	1036	1041	1039	1042	1047	
45	994	999	998	1002	1007	
50	994	999	998	1002	1007	
55	942	947	949	953	960	
60	942	947	949	953	960	
65	884	889	892	897	905	
70	884	889	892	897	905	
75	818	822	828	837	843	
80	818	822	828	837	843	
85	747	750	757	770	778	
90	747	750	757	770	778	

Luminance Data (cd/sq.m)						
	Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg		
	45	14199	11327	10779		
	55	13556	10171	9731		

8940

8679

8857

12502

10627

8488

65

75 85

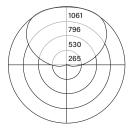
9357

9572

9984

#### Widespread Lens

Test #	KPL2015-1
Catalog #	V3I-N-WS-40-4
Lumens	3883 Lm
Watts	24.2 W
Efficacy	161 LPW



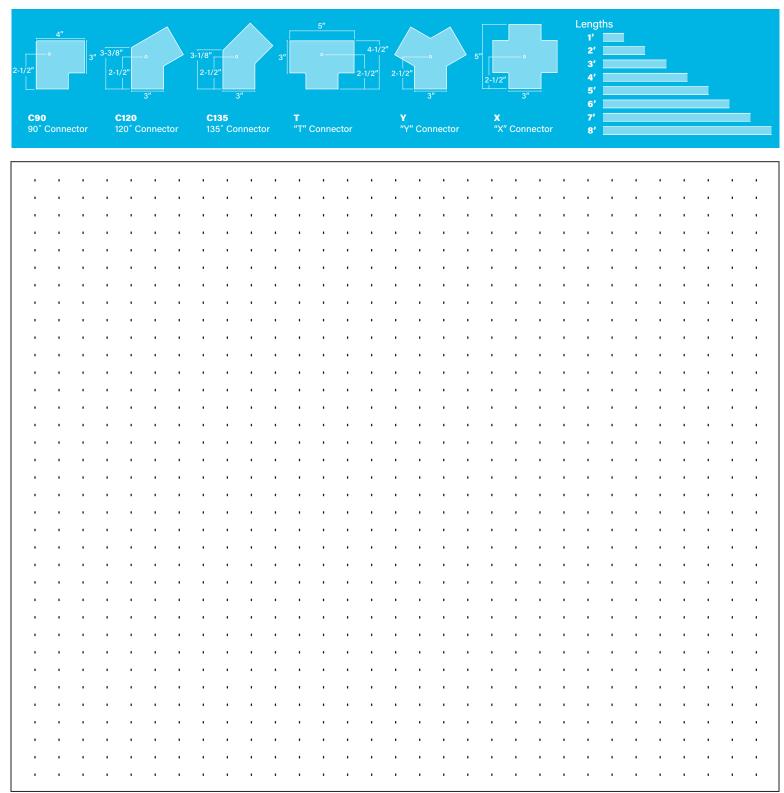
#### **Candela Distribution**

Vert Horizontal Angle Angle					
Aligie	0	22.5	45	67.5	90
~~					
90	13	92	201	255	259
95	48	130	260	320	324
100	98	181	323	391	394
105	162	234	388	466	472
110	237	304	456	546	556
115	315	382	526	624	631
120	397	459	607	701	709
125	474	539	687	781	789
130	556	618	762	856	865
135	637	693	826	919	929
140	711	764	882	968	977
145	784	829	926	1002	1011
150	850	886	964	1024	1032
155	909	935	993	1037	1043
160	960	977	1015	1043	1048
165	999	1010	1031	1046	1050
170	1029	1032	1043	1048	1051
175	1046	1048	1050	1049	1051
180	1052	1052	1052	1052	1052

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 lable 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 V3AJ spec sheet.
- Change direction of light in pattern see V3AJ spe
   Cannot use connector with another connector.
- All lengths are TO THE FOOT ONLY.



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### **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 =  $R_{250}$ .

**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	<b>56'</b> (.53A)	<b>42'</b> (.7A)	<b>28'</b> (1.05A)	<b>20'</b> (1.5A)	<b>12'</b> (2A)
4' Housing	4.0w/ft	5.4w/ft	8.2w/ft	11.9w/ft	16.1w/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.