

# COVE

## Architectural Cove Mount

### Key Features

- Toolless 3 position adjustable head
- Integral Driver
- Wiring Quick Connection for rows
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed.
- Approved for dry/damp location unless otherwise noted
- Maximum fixture weight is 10 lbs per 4ft fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: C-830HO-26'-CV-U-OL2-1-0-N



-----	-----	<b>CV</b>
<b>CRI, CCT &amp; OUTPUT</b> <i>QS</i> <sup>1</sup>	<b>LENGTH</b> <sup>2</sup>	<b>MOUNTING</b>
<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>  <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output</i>	--- - Individual Fixture --- - Continuous Row <i>Length and Pattern pg. 2-3</i>	<b>CV</b> - Cove <i>QS</i> <i>Mounting pg. 3</i>

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<b>VOLTAGE</b>	<b>DRIVER</b>	<b>CIRCUITING</b>
<b>U</b> - Universal <i>QS</i> <i>(120 thru 277V)</i> <b>1</b> - 120V <i>QS</i> <b>2</b> - 277V <i>QS</i> <b>3</b> - 347V <i>Voltage pg. 3</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <i>QS</i> <b>PL2</b> - Advance Xitanium (1%, 0-10v) <i>QS</i> <b>OL4</b> - Osram 347V (1%, 0-10v) <b>EE1</b> - eldoLED ECOdrive (1%, 0-10v) <b>ES1</b> - eldoLED ECOdrive (1%, DALI) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>PS1</b> - Advance Xitanium (50%/100%) <b>OL2</b> - Osram (1%, 0-10v) <i>QS</i> <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <i>QS</i> <b>E</b> - Emergency <i>QS</i> <i>(entire fixture)</i> <b>N</b> - Night Light <i>QS</i> <i>(entire fixture)</i> <i>Circuiting pg. 4</i>

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<b>BATTERY &amp; EMERGENCY</b> <sup>3</sup>	<b>FINISH</b>	<b>FIXTURE OPTIONS</b> <sup>4</sup>	<b>CONTROLS</b>
<b>0</b> - None <i>QS</i> <b>FSG</b> - Factory Select ALCR <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>ILL</b> - Iota 10w Integral (low profile) <i>QS</i> <b>PLL</b> - Bodine 10w Integral (low profile) <i>Battery and Emergency pg. 4</i>	<b>N</b> - Natural <i>QS</i> <i>Finish pg. 4</i>	<b>QS</b> - QuickShip <i>QS</i> <b>DSP</b> - Customer Supplied Battery/Driver/Sensor <i>Fixture Options pg. 4</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

When specifying SOURCE the first \_ is for specifying either 8 - 80CRI, 9 - 90CRI or B - BIOS. The ending \_\_\_ are for specifying output, example HO - High Output. When specifying BIOS use B and then specify color temperature, either 3500K or 4000K, and output, example B35HO - BIOS 3500K High Output. If specifying QS output is 80 CRI, all color temperatures, all lumen packages. Does not include BIOS or Tunable White. See output charts for more information. BIOS dynamic available, please contact factory for more information

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### CRI, CCT & Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory
- 80 CRI = R9≥19 and 90 CRI = R9≥61

### Custom Output- Lumens OR Wattage

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

### 80 CRI

	Color	Lumens <i>per foot</i>		
			LPW	Watts/ft
<b>830LO</b>	3000K	500	111.0	4.5
<b>830MO</b>	3000K	750	109.5	6.8
<b>830HO</b>	3000K	1000	106.3	9.4
<b>830VHO</b>	3000K	1250	105.5	11.8
<b>835LO</b>	3500K	500	114.2	4.4
<b>835MO</b>	3500K	750	112.7	6.7
<b>835HO</b>	3500K	1000	109.4	9.1
<b>835VHO</b>	3500K	1250	108.6	11.5
<b>840LO</b>	4000K	500	115.6	4.3
<b>840MO</b>	4000K	750	113.0	6.6
<b>840HO</b>	4000K	1000	110.2	9.1
<b>840VHO</b>	4000K	1250	109.9	11.4

### 90 CRI

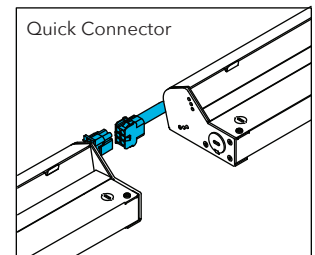
<b>927LO</b>	2700K	500	93.3	5.4
<b>927MO</b>	2700K	750	91.4	8.2
<b>927HO</b>	2700K	1000	91.2	11.0
<b>930LO</b>	3000K	500	96.7	5.2
<b>930MO</b>	3000K	750	94.9	7.9
<b>930HO</b>	3000K	1000	94.5	10.6
<b>935LO</b>	3500K	500	98.8	5.1
<b>935MO</b>	3500K	750	97.1	7.7
<b>935HO</b>	3500K	1000	96.6	10.4
<b>940LO</b>	4000K	500	98.1	5.1
<b>940MO</b>	4000K	750	96.3	7.8
<b>940HO</b>	4000K	1000	95.9	10.4

### Length

- Continuous Rows are made up of even and odd length fixtures
- If ordering single circuit as a row fixtures will come with quick connectors, first and last fixture will have one connector, middle fixtures will have one per end

2	3	4	6	8	-
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run
24-3/8" (619mm)	36-3/8" (924mm)	48-3/8" (1229mm)	72-3/8" (1838mm)	96-3/8" (2448mm)	Specify nominal overall row length to the 1'

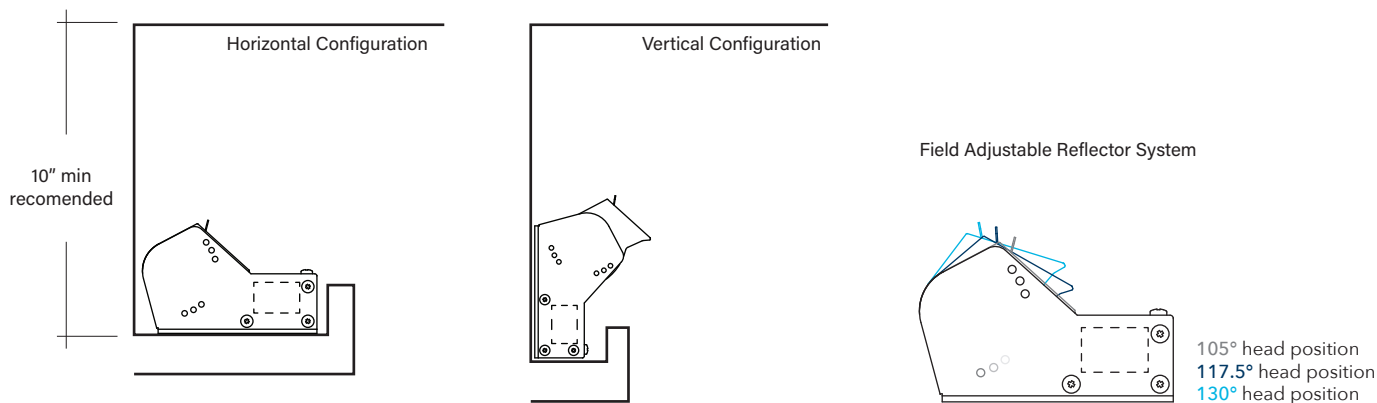
Specify to the 1' >>>





## Mounting

- Minimum recommended height of 10"
- Field adjustable reflector system has 3 positions 105°, 117.5°, and 130°
- Approved for dry/damp location unless otherwise noted
- Maximum fixture weight is 10lbs per 4ft fixture



## Voltage

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

<b>U</b>	Universal
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt

## Driver

- Standard Driver Option = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide
- Some Cove configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Signify Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	Osram Optotronic, 1%, 0-10v
<b>OL4</b>	Osram Optotronic 347v, 1% 0-10v, requires 347v option
<b>EE1</b>	eldoLED ECOdrive 1%, 0-10v Logarithmic
<b>EE2</b>	eldoLED ECOdrive 1%, 0-10v Linear
<b>ES1</b>	eldoLED SOLOdrive 0-10v, 0% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear
DALI Drivers	
<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)
<b>OD1</b>	Osram Optotronic 1%, DEXAL
<b>OD2</b>	Osram Optotronic 1%, DALI 2 Channel
Lutron Drivers	
<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
<b>LH4</b>	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only
Alternate Drivers	
<b>PS1</b>	Signify Advance Xitanium Step Dimming 50%/100%
<b>EH1</b>	ELV 120v only, 0-10v universal

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## How to specify Circuiting, Battery and Emergency

- 1**
- Select fixture circuiting from options below
  - Some Cove configurations will not accommodate all circuiting options, consult with factory

### Circuiting

<b>1</b>	Single Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

- 2** + **3**
- Battery and emergency section options are available in addition to fixture circuit
  - Select battery and emergency section options below; factory shop drawing required
  - Some EV3D configurations will not accommodate all circuiting options, consult with factory

### Battery and/or Emergency *If Required*

<b>0</b>	No battery section required
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### Battery

- Select battery section type if required, indicate total QTY. Example 2P
- 90 minute battery runtime; test button is integral to fixture
- No battery option available for 2' lengths
- Entire fixture housing is on battery for lengths up to 4'
- For more battery options available, see Pinnacle Resource Guide

<b>0</b>	No Battery
<b>_ILL</b>	Iota 10w Integral Lithium, Self Testing
<b>_IRH</b>	Iota 20w Remote
<b>_PLL</b>	Bodine 10w Integral Lithium, Self Testing
<b>_PRH</b>	Bodine 20w Remote

#### 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

<b>_FSG</b>	Factory Select ALCR, Automatic Load Control Relay
<b>_GI</b>	Iota ETS DR, Emergency Lighting Control Device
<b>_GB</b>	Bodine GTD, Emergency Lighting Control Device

#### Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery      Ordering Code: 1-1P
- Emergency only, 10w Integral Battery      Ordering Code: E-1P

### Finish

- Unpainted aluminum natural metal finish

<b>N</b>	Natural
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## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>QS</b>	Quick Ship
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor

### Quick Ship

CRI, CCT & Output	Voltage	Driver	Circuiting	Battery
80 CRI, all color temperatures, all lumen packages <i>See pg 2</i>	<b>U</b> Universal (120-277) <b>1</b> 120V <b>2</b> 277V	<b>FSD</b> Factory Select Driver (1%, 0-10v) <b>PL2</b> Advance Xitanium 0-10v, 1% <b>OL2</b> Osram 0-10v, 1%	<b>1</b> Single Circuit <b>E</b> Emergency <b>N</b> Night Light	<b>0</b> None <b>_ILL</b> Iota 10w Integral

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

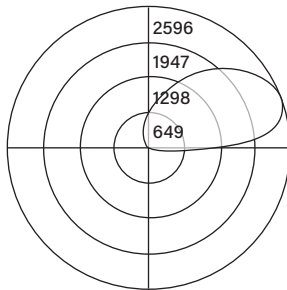
## Controls

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

## Photometrics

### Satine Lens

Test #	ITL91222
Catalog #	C-840VHO-4
Lumens	4774 lm
Watts	43 W
Efficacy	111 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	45	90	135	180
65	0	0	0	0	0
90	1350	883	0	0	0
95	1972	1281	37	0	0
105	2504	1628	131	0	0
115	2589	1679	229	0	0
125	2433	1615	325	13	0
135	2167	1496	410	56	17
145	1825	1320	481	115	65
155	1436	1111	534	195	137
165	1058	895	569	337	277
175	731	687	587	499	468
180	589	589	589	589	589

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	5372	705	0
85	18952	15049	0

For all available IES files, please visit our website at [pinnacle-ltg.com](http://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

## Applications & Certificates

**Construction:** Formed aluminum housing. Highly reflective extruded white painted aluminum reflector.

**Shielding:** Diffuse snap-in clear lens, removable for maintenance.

**Mounting:** Cove is designed to install into architectural cove structures. Recommended 10" minimum cove height. Consult factory for detailed installation instructions. Maximum fixture weight is 10lbs per 4' fixture.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All 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. Lifetime Projection L70 = 115,850 hours and L90 = 34,500 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at [pinnacle-ltg.com](http://pinnacle-ltg.com).

**CRI, CCT & Lumen Output:** Four lumen packages available. Low (LO), Medium (MO), High (HO) and Very High (VHO). 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. 80 CRI = R9≥19 and 90 CRI = R9≥21.

**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 Cove configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. 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 81°F/27°C. For more driver options, see Pinnacle Resource Guide. Some Cove configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Emergency circuit (E), or Night Light circuit (N). Some Cove 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 integral to fixture. For more Battery options, see Pinnacle Resource Guide.

**Finish:** Raw Aluminum with natural metal finish.

**Controls:** Consult factory.

**Labels:** UL and cUL Listed. Approved for dry/damp location unless otherwise noted.

**Fixture Weight:** Maximum fixture weight is 10lbs per 4' fixture.

**Buy American Act Compliant**

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

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