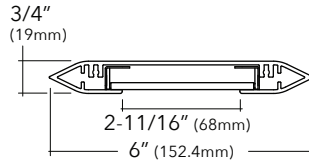




FACTORY DRAWING AND SIGN OFF REQUIRED WITH THIS PRODUCT.



# CUBRA CU3AJ

## 3" Direct and Indirect Linear with Alternating Joint

### Key Features

- Ultra-Slim 3/4" profile
- 6" extruded aluminum housing with 3" aperture
- Direct illuminated luminaire utilizes light guide plate (LGP) for high optical efficiency
- Batwing and Lambertian optics deliver quality light while maintaining visual continuity
- Up to 1000 lumens per ft and up to 128 LPW
- Up to 18 ft on center spacing with batwing optic and 14 ft with lambertian
- Design patterns with non-illuminated connectors
- Select from flat or rounded end cap designs
- 3/16" wide Alternating Joint allows for combination of direct and indirect light in your space



Example Part #: CU3AJ-A-835HO-24'-CAC48G1-U-FSD-1-0-W

**CU3AJ** - SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - REMOTE DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

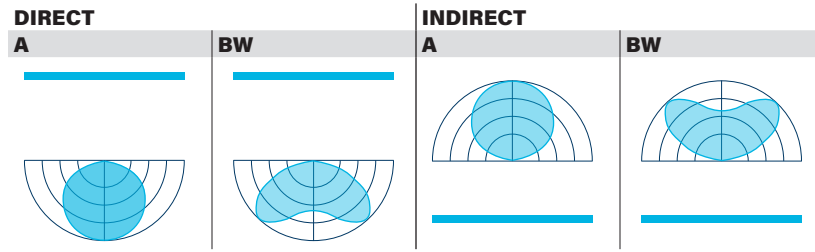
HOUSING	SHIELDING	CRI, CCT & OUTPUT <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
<b>CU3AJ</b> - Cubra 3 with Alternating Joint  <i>For straight runs, specify overall nominal length. Use page 6 to draw out the straight run and include all alternating joints while indicating light directionality and shielding.</i>	<b>A</b> - Lambertian <b>BW</b> - Batwing <i>Indirect 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>CRI, CCT &amp; Output pg. 2</i>	<b>_</b> - Individual Fixture <b>_</b> - Continuous Row <b>SS</b> - Square, Square connector <b>SR</b> - Square, Round connector <b>RS</b> - Rectangle, Square connector <b>RR</b> - Rectangle, Round connector <b>US</b> - U Shape, Square connector <b>UR</b> - U Shape, Round connector <b>LS</b> - L Shape, Square connector <b>LR</b> - L Shape, Round connector <b>MOD</b> - MOD options available <i>Length of Pattern pg. 2-3</i>
MOUNTING <sup>3</sup>	VOLTAGE	REMOTE DRIVER	CIRCUITING
<b>CAC</b> - Conductive AC to Grid <b>CAC</b> - Conductive AC to J Box <b>PAC</b> - Power over AC to Grid <b>PAC</b> - Power over AC to J Box <i>Mounting pg. 3</i>	<b>U</b> - Universal (120 thru 277V) <b>1</b> - 120V <b>2</b> - 277V <b>3</b> - 347V <i>Voltage pg. 4</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>PL4</b> - Advance Xitanium 347v (1%, 0-10v) <b>EE1</b> - eldoLED ECODErive (1%, 0-10v) <b>ES1</b> - eldoLED SOLOdrive (0%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <b>EH1</b> - ERP Power (1%, 0-10v) <i>Driver pg. 4</i>	<b>1</b> - Single Circuit <b>E</b> - Emergency (entire fixture) <b>N</b> - Night Light (entire fixture) <i>Circuiting pg. 4</i>
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS <sup>5,6</sup>	CONTROLS
<b>0</b> - None <b>FSG</b> - Factory Select ALCR <b>FSB</b> - Factory Select Battery <b>GI</b> - Iota ETS DR <b>GB</b> - Bodine GTD <b>PLL</b> - Bodine 10W <b>ILL</b> - Iota 10W <b>E</b> - Emergency Section <b>N</b> - Night Light Section <i>Battery &amp; Emergency pg. 4-5</i>	<b>W</b> - White <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 5</i>	<b>ET</b> - Tapered Endcap <b>EF</b> - Flat Endcap <b>ES</b> - Slotted Endcap <b>EI</b> - Inset Endcap <b>ECC</b> - Endcap color <b>BA</b> - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 5</i>	<i>Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.</i>

<sup>1</sup>When 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. <sup>2</sup>Individual fixtures come in **1', 2', 3', 4', 5', 6', 7' & 8'** lengths. Continuous rows available in 1' increments. Connectors for patterns can either be closed (**C**) or open (**O**), closed is the standard if you would like the connector to be open specify by adding an **O** to the ordering code. Example: if you want a square pattern with open round connectors - **SRO**. <sup>3</sup>Specify AC Cable length, standard AC are 48" & 120" <sup>4</sup>All Battery options are REMOTE ONLY. Enter quantity for Battery and Emergency, Example 2PLL. <sup>5</sup>Use ECC\_ to specify endcap finish other than fixture finish. Fill in the " \_ " with a code from the FINISH section. <sup>6</sup>Compliance is configuration dependent; consult factory for confirmation.

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## Shielding



## CRI, CCT & 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

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Max Lumens: A = 2,000 and BW = 1,760. Max lumens dependent on color temp. Consult factory for more information
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Max Watts: 16.1 watts/ft. Consult factory for more information.

## 80 CRI

	Color	Lumens per foot	Shielding <sup>1</sup>			
			A Lambertian		BW Batwing	
			LPW	Watts/ft	LPW	Watts/ft
<b>830LO</b>	3000K	500	115	4.3	102	4.9
<b>830MO</b>	3000K	750	115	6.5	101	7.5
<b>830HO</b>	3000K	1000	114	8.8	100	10.0
<b>835LO</b>	3500K	500	122	4.1	108	4.6
<b>835MO</b>	3500K	750	123	6.1	107	7.0
<b>835HO</b>	3500K	1000	121	8.3	106	9.4
<b>840LO</b>	4000K	500	127	3.9	112	4.5
<b>840MO</b>	4000K	750	128	5.9	111	6.7
<b>840HO</b>	4000K	1000	126	7.9	110	9.1

## 90 CRI

<b>927LO</b>	2700K	500	96	5.2	84	5.9
<b>927MO</b>	2700K	750	95	7.9	83	9.0
<b>927HO</b>	2700K	1000	94	10.6	83	12.1
<b>930LO</b>	3000K	500	105	4.8	92	5.4
<b>930MO</b>	3000K	750	104	7.2	91	8.2
<b>930HO</b>	3000K	1000	103	9.7	91	11.0
<b>935LO</b>	3500K	500	110	4.6	96	5.2
<b>935MO</b>	3500K	750	109	6.9	95	7.9
<b>935HO</b>	3500K	1000	108	9.3	94	10.6
<b>940LO</b>	4000K	500	106	4.7	93	5.4
<b>940MO</b>	4000K	750	105	7.1	92	8.2
<b>940HO</b>	4000K	1000	104	9.6	92	10.9

<sup>1</sup>LPW and watts/ft based off 47" fixture size.

## Length

- All individual units are not intended to be joined.
- Flat endcap adds 3/8" per end, all other add 1-1/4" per end.

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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## Patterns

- Specify open (O) or closed (C) connector when ordering.  
Example: SRO4 - 4' Square Rounded Open connector
- Specify pattern shape and requested fixture length
- Length specified will not reflect overall pattern dimensions
- All connectors are NON ILLUMINATED
- Minimum length for any single part of a pattern is 1'

- All lengths are TO THE FOOT ONLY
- Driver/Battery Count dictated by product configuration
- Example part number: CU3D-A-835HO-RSO3x4-CAC48JB-U-FSD-1-0-W

SS__	SR__	RS__x	RR__x	US__x	UR__x	LS__x x	LR__x x
Square, Square Connector Provide A dimension Example: <b>SSO4'</b>	Square, Round Connector Provide A dimension Example: <b>SRO4'</b>	Rectangle, Square Connector Provide AxB dimensions Example: <b>RSO4'x3'</b>	Rectangle, Round Connector Provide AxB dimensions Example: <b>RRO4'x3'</b>	U-Shape, Square Connector Provide AxBxC dimensions Example: <b>USO4'x3'x4'</b>	U-Shape, Round Connector Provide AxBxC dimensions Example: <b>URO4'x3'x4'</b>	L-Shape, Square Connector Provide AxB dimensions Example: <b>LSO4'x3'</b>	L-Shape, Round Connector Provide AxB dimensions Example: <b>LRO4'x3'</b>

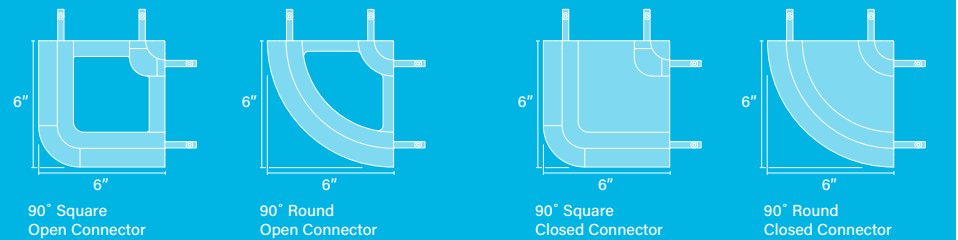
## Patterns: MOD Options

- Specify **MOD** in the part number for any of the below options
- MOD specifications are subject to longer lead-times. Consult factory for more information

<b>X</b>	X Connector
<b>Y</b>	Y Connector
<b>T</b>	T Connector
<b>120</b>	120° Connector
<b>135</b>	135° Connector

### Non-illuminated Connector Details

Specify open (O) or closed (C) connector when ordering.  
Example: SRO4 - 4' Square Rounded Open Connector



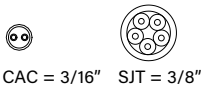
## Mounting

- Specify cable length in ordering code example: PAC48JB
- Standard specifiable lengths are 48', 120', 240' and 350'
- Canopies are painted to match fixture finish, power cords are white or black depending on fixture finish. See Finish section for additional details
- PAC not rated for damp location

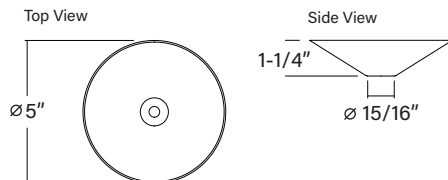
<b>CAC__G</b>	Conductive AC to Grid (specify grid type: G1, G9, GS)
<b>CAC__JB</b>	Conductive AC to Junction Box
<b>PAC__JB</b>	Power over Aircraft Cable Junction Box
<b>PAC__ST</b>	Power over Aircraft Cable Structure

### CAC Canopy Details

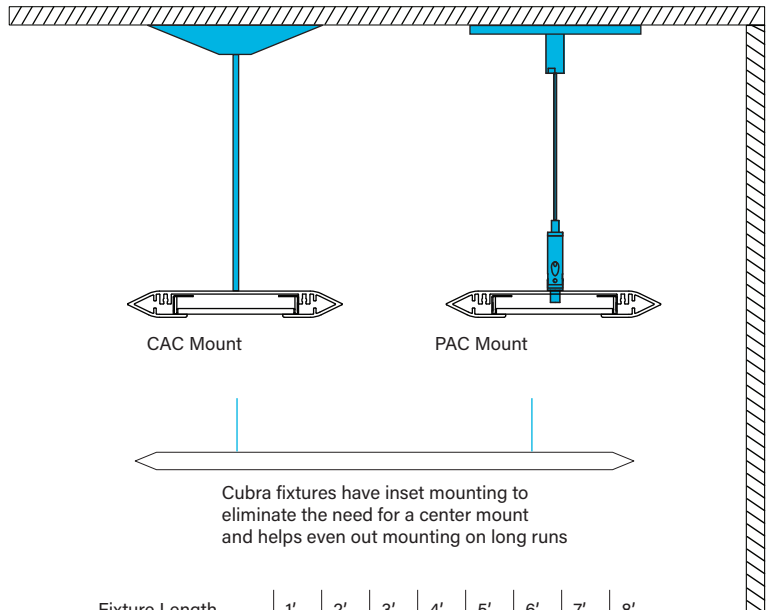
- CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



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



- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 12 lbs for a standard 4' fixture
- Remote box will be included for all specifications
- Output limitations exist with Power over AC (PAC). Consult factory.



Fixture Length	1'	2'	3'	4'	5'	6'	7'	8'
Center to Center Mount	8"	20"	2'	2'	4'	4'	4'	4'



## Voltage

- Some CUBRA 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

## 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 CUBRA configurations will not accommodate all driver options; consult with factory
- Configurations with no PLL, ILL or Emergency Control Device options will use Slim Remote Box
- All others will use Standard Remote Box

### 0-10V Drivers

<b>FSD</b>	Factory Select Driver 1%, 0-10v
<b>PL2</b>	Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED 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 0.1%, 0-10v, Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0.1%, 0-10v, Linear

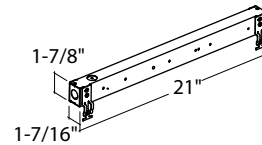
### DALI Drivers

<b>EE3</b>	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
<b>ES3</b>	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6
<b>OD1</b>	eldoLED Optotronic 1%, DEXAL, DALI 2, DT6

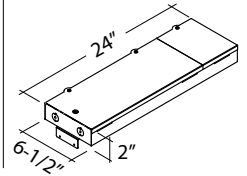
### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
------------	---

Slim Remote Box



Standard Remote Box



## How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
  - Some CUBRA 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

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

## Battery and/or Emergency If Required

- No battery or specific emergency section required

## Battery

- Battery is REMOTE
- Select battery option if required, indicate total QTY. *Example 2PLL*
- 90 minute battery runtime; test button is remote to fixture

<b>0</b>	No battery
<b>_FSB</b>	Factory Select Battery (10w option, remote in box)
<b>_FSBST</b>	Factory Select Battery (Self Testing, remote in box)
<b>_ILL</b>	lota 10W (low profile, remote in box)
<b>_IRC</b>	lota 10W (remote with conduit)
<b>_PLL</b>	Philips Bodine 10W (low profile, remote in box)
<b>_PRC</b>	Philips Bodine 10W (remote with conduit)

- Battery operates full length of housing up to 8' on individual fixtures or within continuous row
- For more battery options available, see [Pinnacle Resource Guide](#)

### 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

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## Emergency

- Emergency Control Device is REMOTE in driver box
- Select emergency type if required, indicate total QTY. *Example 1E*
- Combine battery and emergency ordering codes if both options are selected
- For use when specifying sections in continuous runs

<b>_FSG</b>	Factory Select ALCR Emergency Control Device, UNV
<b>_GI</b>	Iota ETS-DR, Emergency Control Device, UNV
<b>_GB</b>	Bodine GTD, Emergency Control Device, 120v or 277v
<b>_E</b>	Emergency circuit
<b>_N</b>	Night Light circuit

### 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: 1-1GB  |

## Finish

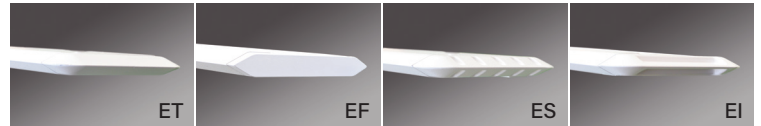
- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

<b>W</b>	White
<b>S</b>	Metallic Silver
<b>BL</b>	Textured Black
<b>GR</b>	Graphite
<b>BR</b>	Bronze
<b>CC</b>	Custom Color

## Fixture Options

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

<b>ET</b>	Tapered Endcap
<b>EF</b>	Flat Endcap
<b>ES</b>	Slotted Endcap
<b>EI</b>	Inset Endcap
<b>ECC</b>	Endcap Color



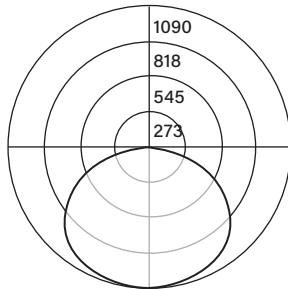
- Domestic content option - compliance is configuration dependent; consult factory for conformation

<b>BA</b>	Buy America(n) Act and/or Build America Buy America Compliant
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## Photometrics

### Lambertian

Test #	L012210105
Catalog #	CU3D-A-840-4
Lumens	4342 lm
Watts	34.5 W
Efficacy	126 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1067	1067	1067	1067	1067
5	1068	1067	1067	1066	1066
10	1070	1070	1066	1064	1062
15	1075	1072	1065	1058	1055
20	1080	1075	1062	1049	1043
25	1085	1077	1056	1036	1027
30	1086	1075	1046	1018	1005
35	1083	1068	1030	993	976
40	1071	1052	1006	960	940
45	1048	1026	971	918	895
50	1009	985	924	864	839
55	953	927	863	799	771
60	876	850	784	719	690
65	777	753	687	623	594
70	657	634	573	512	482
75	519	499	443	389	359
80	363	352	309	268	244
85	210	202	178	145	114
90	0	0	0	0	0

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17324	16051	14795
55	19421	17587	15712
65	21491	19001	16429
75	23439	20007	16213
85	28164	23873	15289

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 or IAS accredited testing laboratory. Testing conducted at 25°C ambient conditions

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## 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 light direction - Direct (**D**) or Indirect (**I**), and shielding - Lambertian (**A**) or Batwing (**BW**); example 4D-A would be 4' Direct with Lambertian Lens.
- Cannot connect a connector to another connector.
- Fixtures available in 1', 2', 3', 4', 5', 6', 7', and 8' lengths. All lengths are TO THE FOOT ONLY.

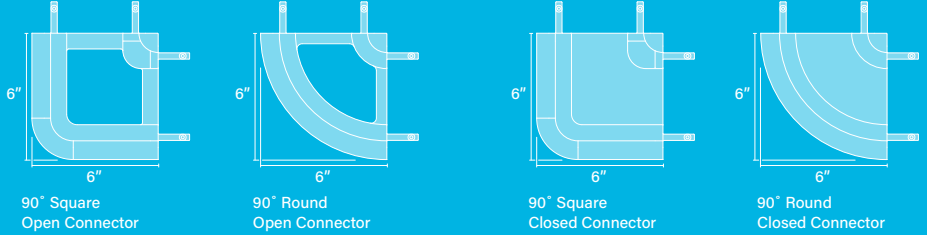
### Joint



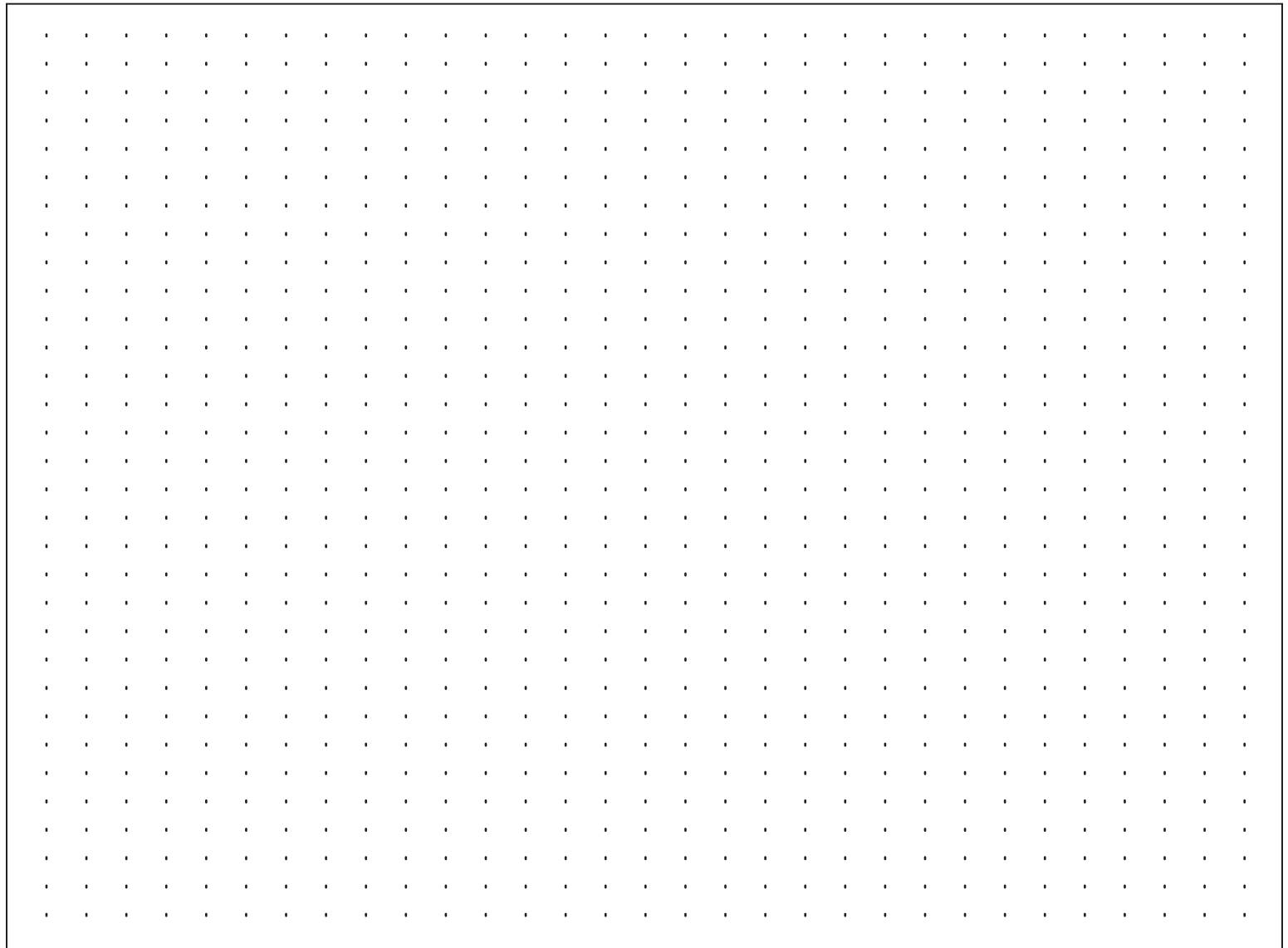
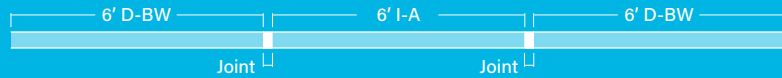
**AJ**  
Alternating Joint

Example Part Number using Alternating Joint:

CU3AJ-A-BW-830-18'-CAC48JB-U-FSD-1-0-W-ET



How to draw it out:





## Approvals & Certifications

**Construction:** 6063-T6 Extruded aluminum housing. Diecast aluminum endcaps.

**Shielding:** Direct distribution utilizes light guide plate technology (LGP). Single or dual side light is transmitted through the clear, acrylic engraved structure and controlled by highly reflective reflector material to achieve high optical efficiency. Specify between Lambertian (A) or Batwing (BW) optical distributions.

**Mounting:** Conductive Aircraft Cable (CAC) and Power over AC (PAC) mount available. Power mount supplied with conductive aircraft cable and round canopy 5" diameter that narrows to 15/16" and 1-1/4" tall. Non-power supplied with aircraft cable and 2" (50.8mm) canopy. Each fixture consists of two mounting points inset from the ends. 2', 3' and 4' are spaced 2ft apart and 5', 6', 7' and 8' are 4ft apart. Canopies are painted white unless otherwise specified.

**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. Calculated L70 = 238,000 hours and calculated L90 = 71,200 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:** 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 PL4 or OL4 in Driver section when 347 volt (3) is selected. Some CUBRA configurations will not accommodate all voltage options; consult with factory.

**Remote Driver:** Standard Driver option is Factory Select Driver (FSD). FSD driver specification = 0-10V, 1% dimming. 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 110°F/43°C. For more driver options, see Pinnacle Resource Guide. Some CUBRA configurations will not accommodate all driver options.

### 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	4.8w/ft	6.4w/ft	9.5w/ft	13.4w/ft	16.3w/ft
8' Housing	2.4w/ft	3.1w/ft	4.7w/ft	6.6w/ft	8.9w/ft

**Circuiting:** Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some CUBRA configurations will not accommodate all circuiting options; consult with factory.

**Remote 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 are painted to match the fixture finish (i.e. bronze fixture, bronze canopy). Contact factory for additional custom color and finish options.

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

**Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance:** BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

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

**Fixture Weight:** Maximum fixture weight is 12 lbs (per 4' fixture).

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