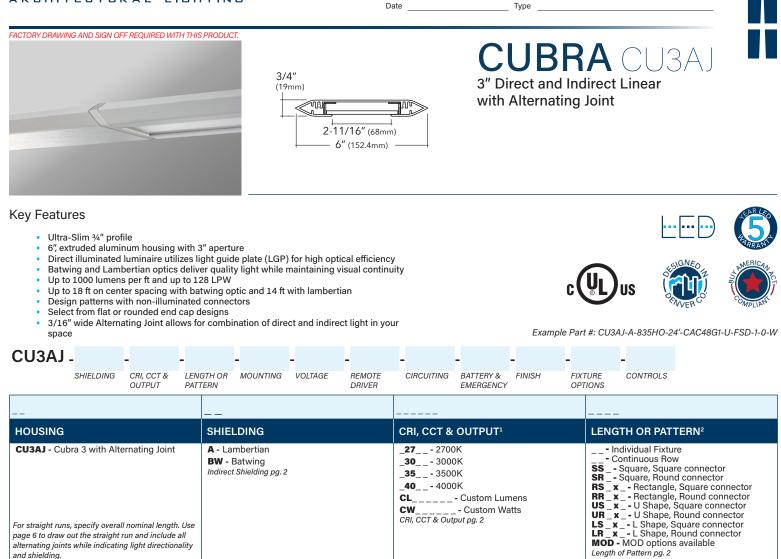
#### NNA L С E TECTURAL LIGHTING RCH

Project Name

Type





MOUNTING <sup>3</sup>	VOLTAGE	REMOTE DRIVER	CIRCUITING
CACGX - Conductive AC to Grid CACJB - Conductive AC to J Box PACGX - Power over AC to Grid PACJB - Power over AC to J Box Mounting pg. 2	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 2	FSD - Factory Select Driver (1%, 0-10v)         PL2 - Advance Xitanium (1%, 0-10v)         OL2 - eldoLED Optotronic (1%, 0-10v)         PL4 - Advance Xitanium 347v (1%, 0-10v)         EE1 - eldoLED ECOdrive (1%, 0-10v)         ES1 - eldoLED SOLOdrive (0%, 0-10v)         LH1 - Lutron Hi-lume (1%, EcoSystem)         EH1 - ERP Power (1%, 0-10v)         Driver pg. 2	<ul> <li>1 - Single Circuit</li> <li>E - Emergency (entire fixture)</li> <li>N - Night Light (entire fixture) Circuiting pg. 2</li> </ul>

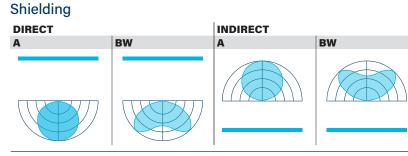
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS <sup>5</sup>	CONTROLS
0 - None _FSG - Factory Select ALCR _FSB - Factory Select Battery _GI - lota ETS DR _GB - Bodine GTD _PLL - Bodine 10W _ILL - lota 10W _E - Emergency Section _N - Night Light Section Battery & Emergency pg. 2	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 2	ET - Tapered Endcap EF - Flat Endcap ES - Slotted Endcap El - Inset Endcap ECC Endcap color <i>Fixture Options pg. 2</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 Situres come in 1, 2, 3, 4, 5, 6, 7, 8 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**\_ 3Specify AC Cable length, standard AC are 48" & 120" 4All Bettery options are REMOTE ONLY. Enter quantity for Battery and Emergency, Example 2PL. <sup>5</sup>Use ECC\_\_ to specify endcap finish other then fixture finish. Fill in the "\_\_" with a code from the FINISH section.

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A brand of **Degrand** 





# CRI, CCT & Output

Specify either 80 or 90 CRI

Longer lead-time may apply for 90 CRI. Consult factory

#### Custom Output - Lumens OR Wattage

Custom	Julpul - Lumens On Wallage	
CL	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
CW	Specify CRI, CCT and desired wattage (i.e. CW9407)	Max Watts: 16.1 watts/ft. Consult factory for more information.
80 CRI		

• 90 CRI = R9≥50

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

#### **90 CRI**

927LO	2700K	500	96	5.2	84	5.9
927MO	2700K	750	95	7.9	83	9.0
927HO	2700K	1000	94	10.6	83	12.1
930LO	3000K	500	105	4.8	92	5.4
930MO	3000K	750	104	7.2	91	8.2
930HO	3000K	1000	103	9.7	91	11.0
935LO	3500K	500	110	4.6	96	5.2
935MO	3500K	750	109	6.9	95	7.9
935HO	3500K	1000	108	9.3	94	10.6
940LO	4000K	500	106	4.7	93	5.4
940MO	4000K	750	105	7.1	92	8.2
940HO	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	Cont. Run							
12" (304.8mm)								Specify nominal overall row length
	24" (609.6mm)							to the 1'
		36" (914.4mm)						
			48" (1219.2mm)					
				60" (1524mm)				
					72" (1828.8mm)			
						84" (2133.6mm)		
							96" (2438.4mm)	
								Specify to the 1'

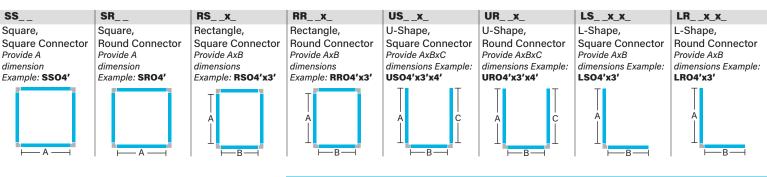
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#### Patterns

- 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



# 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

X Connector

Y Connector

T Connector

120° Connector

135° Connector

Non-illuminated Con	nector Details		ed ( <b>C</b> ) connector when ordering. are Rounded Open Connector
6"	6"	6"	6"
6"	6"	6"	
90° Square	90° Round	90° Square	90° Round
Open Connector	Open Connector	Closed Connector	Closed Connector

# Mounting

X

Y

Т

120

135

- 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

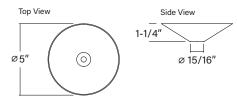
CAC G_	Conductive AC to Grid (specify grid type: G1, G9, GS)	
CACJB	Conductive AC to Junction Box	
PACJB	Power over Aircraft Cable Junction Box	
PACST	Power over Aircraft Cable Structure	

#### **CAC Canopy Details**

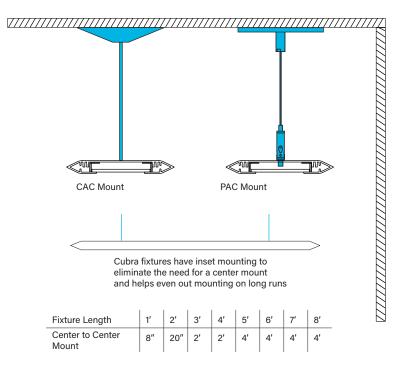
CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



- CAC = 3/16" SJT = 3/8"
- 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.



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# Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

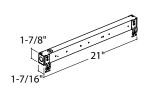
# **Remote Driver**

- 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

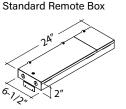
Some CUBRA configurations will not accommodate all driver options;			
0-10V Drive	0-10V Drivers		
FSD	Factory Select Driver (1%, 0-10v)		
PL2	Advance Xitanium 1%, 0-10v		
PL4	Advance Xitanium 1%, 0-10v, requires 347v option		
OL2	eldoLED Optotronic, 1%, 0-10v		
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option		
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic		
EE2	eldoLED ECOdrive 1%, 0-10v Linear		
ES1	eldoLED SOLOdrive 0-10v, 0% Logarithmic		
ES2	eldoLED SOLOdrive 0-10v, 0% Linear		
<b>DALI Driver</b>	5		
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)		
EE4	eldoLED SOLOdrive .1%, DALI (linear)		
Lutron Drive	ers		
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1		
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only		

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



Slim 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

1	Single Circuit		
E	Emergency Circuit only		
Ν	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

3

No battery or specific emergency section required

# Battery

0

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

0	No battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (Self Testing, remote in box)
_ILL	lota 10w (low profile, remote in box)
_IRC	lota 10w (remote with conduit)
_ PLL	Philips Bodine 10w (low profile, remote in box)
_PRC	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 <u>Pinnacle Resource Guide</u>

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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# CUBRA CU3AJ 3" Suspended Linear



PLL 1PLL

# 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

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

D - H - ····				
Batterv	UR Emer	aenev Uro	ierina E	vamnies
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Single circuit, 10w Battery	Ordering Code:	1-1
<ul> <li>Emergency only, 10w Battery</li> </ul>	Ordering Code:	E-1
<ul> <li>Single circuit, GTD required</li> </ul>	Ordering Code:	1-1(

#### 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
S	Metallic Silver
BL	Textured Black
GR	Graphite
BR	Bronze
CC	Custom Color

# **Fixture Options**

Additional options to enhance the fixture and finish of the product

ET	Tapered Endcap	_				
EF	Flat Endcap		1.1.1	1.100		
ES	Slotted Endcap					
EI	Inset Endcap				111.11	
ECC	Endcap Color		ET	EF	ES	EI

**Candela Distribution** 

# Photometrics

L012210105

4342 lm

34.5 W

126 LPW

CU3D-A-840-4

#### Lambertian

Test # Catalog # Lumens Watts Efficacy

				-								
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)

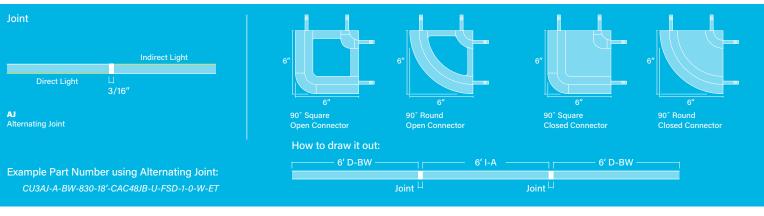
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17324	16051	14795
55	19421	17587	15712
65	21491	19001	16429
75	23439	20007	16213
85	28164	23873	15289

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

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- 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.
   Every available in 1' 2' 2' 4' 5' 6' 7' and 8' lengths.
  - Fixtures available in 1,' 2,' 3,' 4,' 5,' 6,' 7,' and 8' lengths. All lengths are TO THE FOOT ONLY.



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# **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. Refer to installation instructions for appropriate ceiling and mounting detail. 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 accor¬dance 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-Itg.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 $\geq$ 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. Electron¬ic 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	<b>56'</b> (.53A)	<b>42'</b> (.7A)	<b>28'</b> (1.05A)	<b>20'</b> (1.5A)	<b>12'</b> (2A)
4' Housing	4.8w/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: Consult Factory.

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).

#### **Buy American Act Compliant**

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