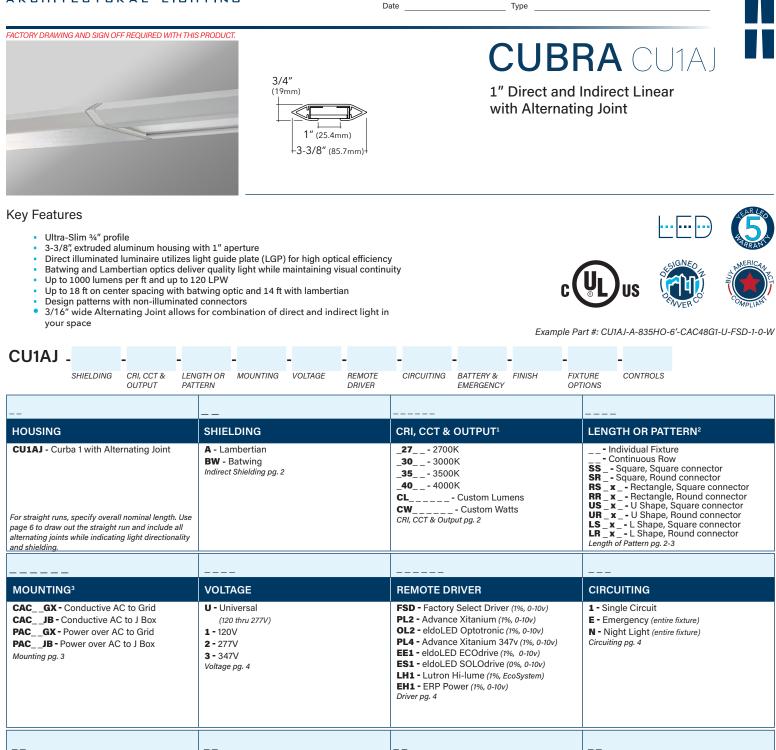
CLE RCHITECTURAL LIGHTING

Project Name



GR - Graphite PLL - Bodine 10W cc - Custom Color ILL - lota 10W E - Emergency Section Finish pg. 5 N - Night Light Section Battery & Emergency pg. 4-5 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

FIXTURE OPTIONS⁵

ECC__- End cap color

Fixture Options pg. 5

MOD - MOD option available

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. ⁵Use ECC__ to specify endcap finish other then fixture finish. Fill in the "__" with a code from the FINISH section.

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FINISH

W - White

BR - Bronze

S - Metallic Silver

BL - Textured Black

BATTERY & EMERGENCY⁴

FSG - Factory Select ALCR

FSB - Factory Select Battery

0 - None

_GI - lota ETS DR

GB - Bodine GTD

CONTROLS

Factory for more information.

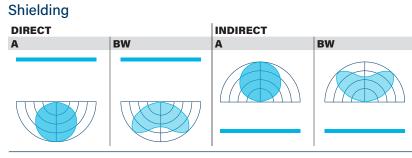
Pinnacle is able to accommodate different control

A brand of **Degrand**

solutions from different manufacturers. Consult

CUBRA ~ CU1AJ ~ 1"Linear Suspended





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	Custom Output - Lumens On Wattage					
CL	Specify CRI, CCT and desired lumens (i.e. CL835500)	Max Lumens: A = 1,840 and BW = 1,640. Max lumens dependent on color temp. Consult factory for more information				
CW	Specify CRI, CCT and desired wattage (i.e. CW9407)	Max Watts: 16.5 watts/ft. Consult factory for more information.				
80 CRI						

90 CRI = R9≥50

Color Lumens Shielding¹ BW per foot Α Batwing Lambertian LPW Watts/ft LPW Watts/ft 830LO 3000K 500 97 109 4.6 5.2 830MO 3000K 750 107 7.0 95 7.9 830HO 3000K 1000 105 9.5 93 10.8 835LO 3500K 500 115 4.3 103 4.9 835MO 3500K 750 114 6.6 101 7.4 835HO 3500K 1000 10.1 112 8.9 99 840LO 4000K 500 120 4.2 107 4.7 840MO 4000K 750 6.3 7.1 119 105 840HO 4000K 1000 117 8.6 103 9.7

90 CRI

927LO	2700K	500	90	5.6	80	6.3
927MO	2700K	750	88	8.5	78	9.7
927HO	2700K	1000	87	11.5	77	13.0
930LO	3000K	500	99	5.1	88	5.7
930MO	3000K	750	97	7.8	85	8.8
930HO	3000K	1000	95	10.5	84	11.9
935LO	3500K	500	103	4.9	91	5.5
935MO	3500K	750	101	7.4	89	8.4
935HO	3500K	1000	99	10.1	88	11.3
940LO	4000K	500	99	5.0	88	5.7
940MO	4000K	750	97	7.7	86	8.7
940HO	4000K	1000	95	10.5	85	11.8

'LPW and watts/ft based off 47" fixture size.

Length

• All individual units are not intended to be joined.

Tapered endcap ands 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'

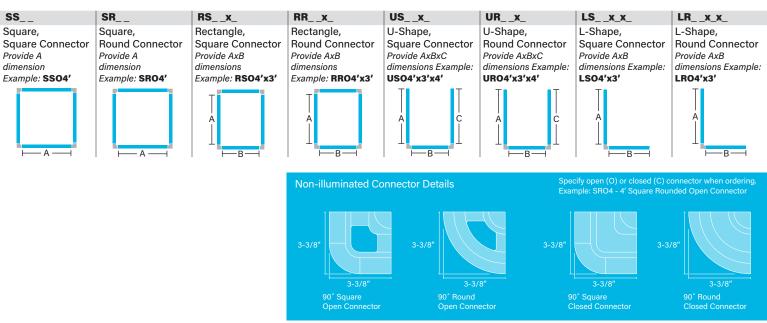
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CU1AJ_LED_SPEC_NOV2023



- 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: CU1D-A-835HO-RSO3x4-CAC48JB-U-FSD-1-0



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, grey, or black depending on fixture finish. See Finish section for additional details
- PAC not rated for damp location

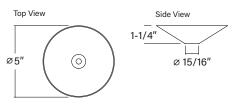
CAC G_	Conductive AC to Grid (specify grid type: G1, G9, GS)
CACJB	Conductive AC to Junction Box
PACJB	Power over Aircraft Cable Junction Box
PACST	Power over Aircraft Cable Structure

CAC Canopy Details

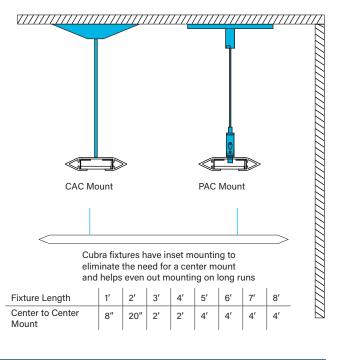
CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



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 8 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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pg. 3



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; consult with factory

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
DALI Drivers	
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
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 LUGE 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 section options are available in addit

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

Battery and/or Emergency If Required

No battery or specific emergency section required

Battery

0

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

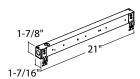
0	No battery
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (Self Testing, remote in box)
_ILL	lota 10w (low profile, remote in box)
_IRC	lota 10w (remote with conduit)
_ PLL	Philips Bodine 10w (low profile, remote in box)
_PRC	Philips Bodine 10w (remote with conduit)

- For more battery options available, see Pinnacle Resource Guide ALL battery options are REMOTE ONLY

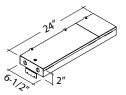
For Approximate Battery Lumen Output Multiply battery wattage X fixture LPW shown on Lumen Table • 92.3 (LPW) x 10 (watts) = 923 battery lumen output

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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



Standard Remote Box

Emergency

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

_FSG	Factory Select ALCR, Automatic Load Control Relay
_GI	Iota ETS DR, Emergency Lighting Control Device
_GB	Bodine GTD, Emergency Lighting Control Device
_E	Emergency circuit
_N	Night Light circuit

Battery OR Emergency Ordering Examples	Combination Sec	tion Ordering Examples	
Single circuit, 10w Battery Ordering Cod	1-1PLL • Single circuit, (1) 10w battery, (1) emergency section Ordering Code	1-1PL1E
Emergency only, 10w Battery Ordering Cod	E-1PLL • Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code:	M-2PLL2E
Single circuit, GTD required Ordering Cod	1-1GB • 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
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

ECC

End Cap Color

Fixture Options: MOD Options

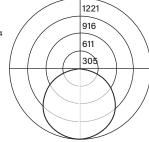
- Specify **MOD** in the part number for any of the below options
- MOD specifications are subject to longer lead-times. Consult factory for more information

MOD Flat Endcap

Photometrics

Lambertian

Test # L012210110 CU1D-A-840VHO-4 Catalog # 4229 lm Lumens Watts 36.3 W Efficacy 116.5 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1218	1218	1218	1218	1218
5	1212	1213	1214	1216	1217
10	1200	1201	1203	1206	1210
15	1185	1186	1188	1192	1198
20	1164	1165	1168	1172	1179
25	1139	1139	1140	1144	1152
30	1109	1108	1106	1110	1117
35	1069	1068	1066	1068	1075
40	1022	1021	1018	1016	1023
45	965	964	959	956	961
50	895	896	891	885	889
55	814	815	812	805	806
60	721	722	721	712	710
65	614	618	616	607	602
70	497	501	500	489	480
75	372	375	373	361	347
80	246	248	244	230	212
85	128	130	128	113	90
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg				
45	45862	45577	45672				
55	47692	47575	47223				
65	48824	48983	47870				
75	48301	48431	45055				
85	49355	49355	34702				

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

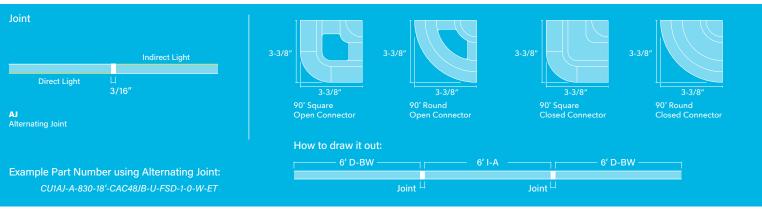
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Multi Connector Layout

- 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 excitons with length and light direction - Direct (D) or Indirect
- 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 use connector with another connector.
 Eixtures available in 1' 2' 3' 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 end caps.

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), Power over AC (PAC) mount available. Power mount sup¬plied 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. 1' = 8" mount spacing, 2' = 20"; 3', 4' are 2 ft apart and 5', 6', 7', 8' are 4 ft 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 = 224,000 hours and calculated L90 = 65,500 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at 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 \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	56' (.53A)	42' (.7A)	28' (1.05A)	20' (1.5A)	12' (2A)
4' Housing	4.9w/ft	6.4w/ft	9.7w/ft	13.6w/ft	17.0w/ft
8' Housing	2.4w/ft	3.2w/ft	4.8w/ft	6.7w/ft	9.1w/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.

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.

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 8 lbs for a standard 4' fixture.

Buy American Act Compliant

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