

# CUBRA CU11

## 1" Indirect Linear Suspended

### Key Features

- Ultra-Slim 3/4" profile
- 3-3/8", extruded aluminum housing with 1" aperture
- Indirect 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 120 LPW
- Up to 18 ft on center spacing with batwing optic and 14 ft with lambertian
- Design patterns with non-illuminated connectors



Example Part #: CU11-N-A-835HO-6'-CAC48G1-U-FSD-1-0-W

### CU11 - N

DIRECT PANEL - INDIRECT PANEL - CRI, CCT & OUTPUT - LENGTH - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH - FIXTURE OPTIONS - CONTROLS

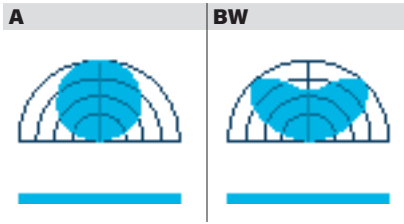
N			
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
<b>N</b> - None <i>Direct Shielding pg. 2</i>	<b>A</b> - Lambertian <b>BW</b> - Batwing <i>Indirect Shielding pg. 2</i>	<b>_27_</b> - 2700K <b>_30_</b> - 3000K <b>_35_</b> - 3500K <b>_40_</b> - 4000K <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 <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 <i>(120 thru 277V)</i> <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 ECOdrive (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 ( <i>entire fixture</i> ) <b>N</b> - Night Light ( <i>entire fixture</i> ) <i>Circuiting pg. 4</i>
BATTERY & EMERGENCY <sup>4</sup>	FINISH	FIXTURE OPTIONS <sup>5</sup>	CONTROLS
<b>0</b> - None <b>FSG</b> - Factory Select ALCR <b>FBS</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>ECC</b> - End cap color <b>MOD</b> - MOD option available <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 2PL. <sup>5</sup>Use ECC\_\_ to specify endcap finish other than fixture finish. Fill in the "\_\_\_" with a code from the FINISH section.

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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 = 1,840 and BW = 1,640. 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: 16.5 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	109	4.6	97	5.2
<b>830MO</b>	3000K	750	107	7.0	95	7.9
<b>830HO</b>	3000K	1000	105	9.5	93	10.8
<b>835LO</b>	3500K	500	115	4.3	103	4.9
<b>835MO</b>	3500K	750	114	6.6	101	7.4
<b>835HO</b>	3500K	1000	112	8.9	99	10.1
<b>840LO</b>	4000K	500	120	4.2	107	4.7
<b>840MO</b>	4000K	750	119	6.3	105	7.1
<b>840HO</b>	4000K	1000	117	8.6	103	9.7

## 90 CRI

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

<sup>1</sup>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	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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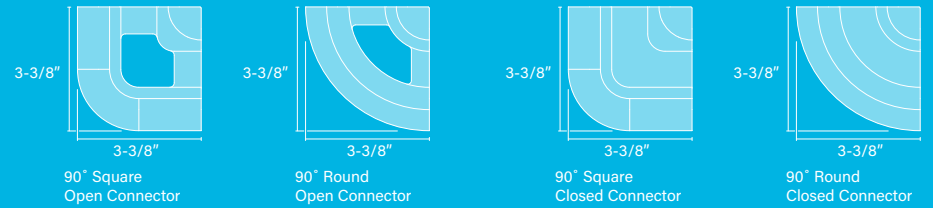
## Patterns

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

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>

### Non-illuminated Connector Details

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



## Mounting

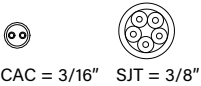
- Specify cable length in ordering code example: PAC48JB
- Standard specifiable lengths are 48", 120", 240" and 350"
- Canopies are painted to match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details
- PAC not rated for damp location

- 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.

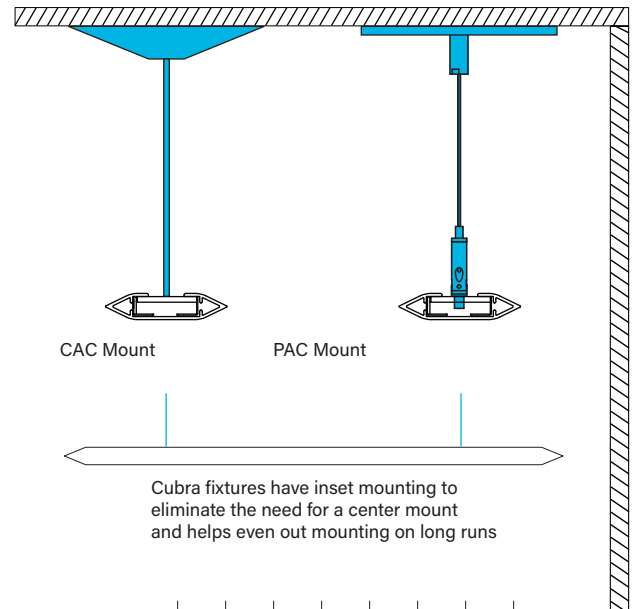
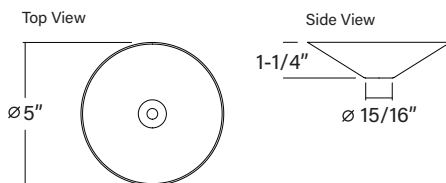
<b>CAC __GX</b>	Conductive AC to Grid
<b>CAC __JB</b>	Conductive AC to J box
<b>PAC __GX</b>	Power over AC to Grid
<b>PAC __JB</b>	Power over AC to J box

### 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.



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

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## 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 1%, 0-10v, requires 347v option
<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 0-10v, 0% Logarithmic
<b>ES2</b>	eldoLED SOLOdrive 0-10v, 0% Linear

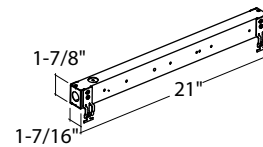
### DALI Drivers

<b>EE3</b>	eldoLED SOLOdrive .1%, DALI (logarithmic)
<b>EE4</b>	eldoLED SOLOdrive .1%, DALI (linear)

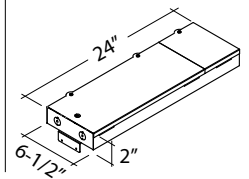
### Lutron Drivers

<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

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

- 0** No battery or specific emergency section required

### Battery

- Battery is REMOTE
- Select battery option if required, indicate total QTY. *Example 2PL*
- 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

**ECC** End Cap Color

### Fixture Options: MOD Options

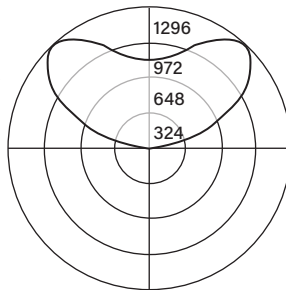
- Specify **MOD** in the part number for any of the below options
- MOD specifications are subject to longer lead-times. Consult factory for more information

**MOD** Flat Endcap

## Photometrics

### Lambertian

Test # KPL2015-76  
 Catalog # CU11-BW-840VHO-4  
 Lumens 3864 lm  
 Watts 36.3 W  
 Efficacy 105.4 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22,5	45	67,5	90
90	3	3	3	4	3
95	39	63	70	54	50
100	113	142	205	231	234
105	200	245	361	423	445
110	288	348	514	629	660
115	371	442	655	817	853
120	447	528	767	973	1026
125	517	598	846	1091	1159
130	579	659	897	1166	1251
135	632	707	923	1194	1295
140	675	745	927	1178	1285
145	713	771	918	1127	1230
150	743	792	902	1057	1140
155	767	805	880	987	1043
160	784	812	859	924	957
165	796	817	838	874	888
170	805	819	825	837	841
175	809	819	817	820	819
180	816	816	816	816	816

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

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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 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. 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 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 = 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](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	4.9w/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.