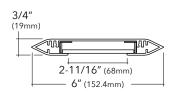
_____ Type _____







CUBRA CU3C 3" Direct Suspended Linear

Key Features

- Ultra-Slim ¾" 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 endcap designs











Example Part #: CU3D-A-N-835HO-6'-CAC48G1-U-FSD-1-0-W-ET

CU3D	-	- N	-	-	-	-	-	-	-	-	-	-
	DIRECT PANEL	INDIRECT PANEL	CRI, CCT & OUTPUT	LENGTH	MOUNTING	VOLTAGE	REMOTE DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS
			N									

	IN .		
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH OR PATTERN ²
A - Lambertian BW - Batwing Direct Shielding pg. 2	N - None	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts CRI, CCT & Output pg. 2	Individual Fixture Continuous Row SS Square, Square connector RS Square, Round connector RS _ x Rectangle, Square connector RR _ x Rectangle, Round connector US _ x U Shape, Round connector UR _ x U Shape, Round connector LS _ x L Shape, Square connector LR _ x L Shape, Round connector MOD - MOD options available Length of Pattern pg. 2-3

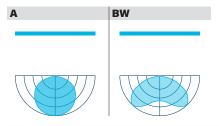
MOUNTING ³	VOLTAGE	REMOTE DRIVER	CIRCUITING
CACGX - Conductive AC to Grid CACJB - Conductive AC to J Box PACGX - Power over AC to Grid PACJB - Power over AC to J Box S - Surface Mount WA - Wall Mount Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 4	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - Osram (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. 4	1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4

BATTERY & EMERGENCY4	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
O - 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. 4-5	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 5	ET - Tapered Endcap EF - Flat Endcap ES - Slotted Endcap EI - Inset Endcap ECC Endcap color Fixture Options pg. 5	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 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 sqaure pattern with open rounded connectors - **SRO**_ ³Specify AC Cable length, standard AC is 48″ or 120″ ⁴All Battery 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.

\ddagger

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 C	Dutput - I	Lumens OF	R Wattage

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

	Color	Lumens	Shieldi	ng¹		
		per foot	A	_	BW	
			Lambert	ian	Batwing	
			LPW	Watts/ft	LPW	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	100	10.0
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	128	5.9	111	6.7
840HO	4000K	1000	126	7.9	110	9.1

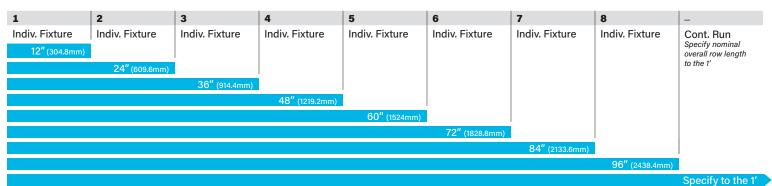
90 CRI

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

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

Length

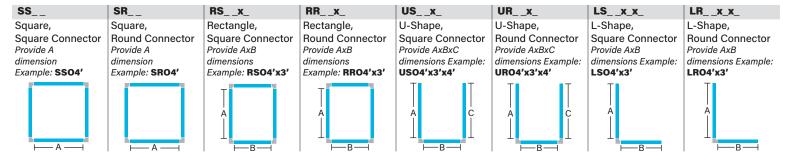
- All individual units are not intended to be joined.
- Flat endcap adds 3/8" per end, all other add 1-1/4" per end.



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'

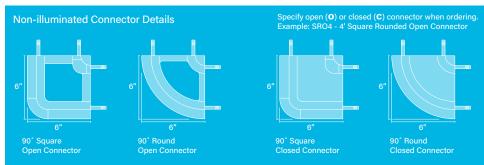
- All lengths are TO THE FOOT ONLY
- Driver/Battery Count dictated by product configuration
- Example part number: CU3D-A-835HO-RSO3x4-CAC48JB-U-FSD-1-0-W



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	X Connector
Υ	Y Connector
Т	T Connector
120	120° Connector
135	135° 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

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
S	Surface Mount
WA	Wall Mount

CAC Canopy Details

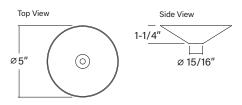
 CAC is an integrated power and suspension cable that is smaller in diameter than a traditional SJT cable. CAC is 2 conductive cables and suspension, standard power cable (SJT) is 5 conductive cables and no suspension.



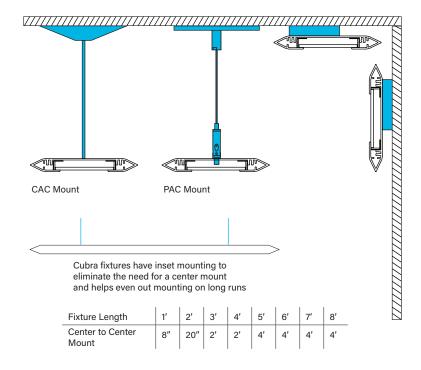


CAC = 3/16" SJT = 3/8"

 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.



Voltage

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

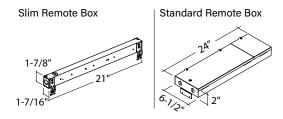
U	Universal
1	120 volt
2	277 volt
3	347 volt

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

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	Osram Optotronic, 1%, 0-10v				
OL4	Osram 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				

- Configurations with no PLL, ILL or Emergency Control Device options will use Slim
- All others will use 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

1	Single Circuit			
E	Emergency Circuit only			
N	Night Light Circuit only			



- Battery and emergency section options are available in addition to fixture circuit
- Select battery and emergency section 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

- 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 (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



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, UNV
_GI	Iota ETS DR, Emergency Lighting Control Device, UNV
_GB	Bodine GTD, Emergency Lighting Control Device, 120v or 277v
_E	Emergency circuit
_N	Night Light circuit

Battery OR Emergency Ordering Examples

 Single circuit, 10w Battery Ordering Code: 1-1PLL Ordering Code: E-1PLL Emergency only, 10w Battery Ordering Code: 1-1GB Single circuit, GTD required

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section
- Multi circuit, (2) 10w battery, (2) emergency sections
- Single circuit, (1) night light section

Ordering Code: 1-1PL1E Ordering Code: M-2PLL2E

Ordering Code: 1-1N

Finish

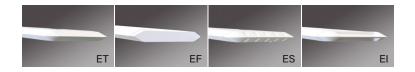
- Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

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

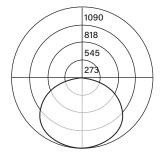
ET	Tapered Endcap				
EF	Flat Endcap				
ES	Slotted Endcap				
EI	Inset Endcap				
ECC	Endcap Color				



Photometrics

Lambertian

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



Candela Distribution Horizontal Angle

Vert

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

+

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), Power over AC (PAC), wall (WA) and surface (S) 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. 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-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. 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.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

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: 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.