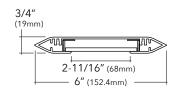
INNACLE Ρ ARCHITECTURAL LIGHTING

Project Name

Date

_ Туре _





CUBRA CU3 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 - N N - N N - N N N N N N - N N - N N - N	CCT & LENGTH MOUNTING VOLTAGE	REMOTE CIRCUITING BATTERY & FINIS DRIVER EMERGENCY	H FIXTURE CONTROLS OPTIONS
	N		
DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH OR PATTERN ²
A - Lambertian BW - Batwing <i>Direct Shielding pg.</i> 2	twing elding pg. 2 adding pg. 2		 Continuous Row SS - Square, Square connector SR - Square, Round connector RS _ x - Rectangle, Square connector US _ x - UShape, Square connector US _ x - UShape, Round connector US _ x - LShape, Square connector LR _ x - LShape, Round connector MOD - MOD options available
MOUNTING ³	VOLTAGE	REMOTE DRIVER	CIRCUITING
CACGX - Conductive AC to GridU - UniversalCACJB - Conductive AC to J Box(120 thru 277V)PACGX - Power over AC to Grid1 - 120VPACJB - Power over AC to J Box2 - 277VS - Surface Mount3 - 347VWA - Wall MountVoltage pg. 4		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)	 1 - Single Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4
BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None W - White _FSG - Factory Select ALCR S - Metallic Silver _FSB - Factory Select Battery BL - Textured Black _GI - Iota ETS DR BR - Bronze _GB - Bodine GTD GR - Graphite _ILL - Iota 10W CC - Custom Color _E - Emergency Section Finish pg. 5 _N - Night Light Section Battery & Emergency pg. 4-5		ET - Tapered Endcap EF - Flat Endcap ES - Slotted Endcap El - 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.

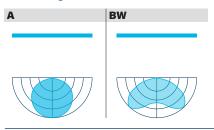
⁻ "When specifying CRI, CCT & OUTPUT the first _ is for specifying either **8** - 80CRI or **9** - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in **1**', **2**', **3**', **4**', **5**', **6**', **7**' & **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''. 4AII 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.

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Shielding



CRI, CCT & Output

Specify either 80 or 90 CRI

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

Custom Output - Lumens OR 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.

• 90 CRI = R9≥50

80 CRI

	Color	Lumens	Shieldi	ing ¹		
		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

1LPW 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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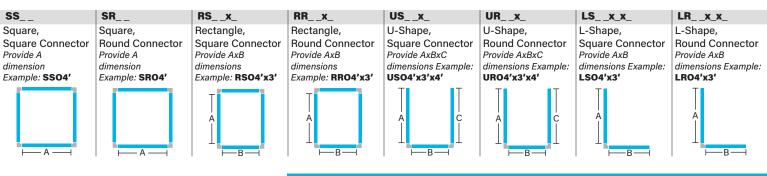


when ordering on Connector

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 C	onnector Details	Specify open (0) or closed (C) connect Example: SRO4 - 4' Square Rounded Op		
6" 6"		6" 6"	6"	
90° Square Open Connector	90° Round Open Connector	90 [°] Square Closed Connector	90° Rour Closed C	

Mounting

X

Y

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

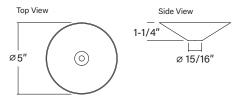
CAC G_	Conductive AC to Grid (specify grid type: G1, G9, GS)	
CACJB	Conductive AC to Junction Box	
PACJB	Power over Aircraft Cable Junction Box	
PACST	Power over Aircraft Cable Structure	
S	Surface Mount	
WA	Wall Mount	

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.



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.

LU M nn, CAC Mount PAC Mount Cubra fixtures have inset mounting to eliminate the need for a center mount and helps even out mounting on long runs Fixture Length 1' 2' 3 4' 5 6 7' 8 Center to Center 8' 2 4' 4 20' 2' 4 Δ' Mount

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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; consult with
- factory

0-10V Drivers	5	
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 CUBRA configurations will not accommodate all circuiting options, consult with factory

Circuiting

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

- 2 3
- 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

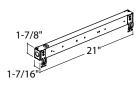
Battery

0

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

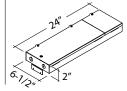
0	No battery	
_FSB	Factory Select Battery (10w option, remote in box)	
_FSBST	Factory Select Battery (Self Testing, remote in box)	
_ILL	lota 10w (low profile, remote in box)	
_IRC	lota 10w (remote with conduit)	
_ PLL	Philips Bodine (low profile, remote in box)	
_PRC	Philips Bodine 10w (remote with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

- 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





- 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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CU3D_LED_SPEC_NOV2023

CUBRA CU3D 3" Direct Suspended Linear



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	lota 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	Combination Section Ordering Examples
Single circuit, 10w Battery Ordering Code: 1-1PLL	Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1PL1E
Emergency only, 10w Battery Ordering Code: E-1PLL	Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2PLL2E
Single circuit, GTD required Ordering Code: 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

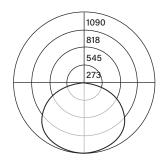
Additional options to enhance the fixture and finish of the product

ET	Tapered Endcap				
EF	Flat Endcap			1.1.10	
ES	Slotted Endcap				
EI	Inset Endcap			111.11	
ECC	Endcap Color	ET	EF	ES	EI

Photometrics



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. 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 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 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.

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	4.8w/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.

 ${\rm Labels:}$ 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.