Р CLE ARCHITECTURAL LIGHTING®

Project Name

Date _

Туре _

CHUTE CD É w ىںن___ 4" Open Suspended Linear Direct 3-13/16" (96.8mm) 2-1/2" (63.5mm) 4" (101.6mm)

Key Features

- 4" wide fixture with a 2 $\frac{1}{2}$ " fully luminous aperture Small, integral driver option for quick, easy installation Light Protection Guard (LPG) covers LEDs for optimal performance

- Four distinct decorative endcaps for tailored designs 6063-T6 Extruded aluminum housing 5-year limited warranty covers LED, driver and fixture .
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada Buy American Act compliant .
- .





Example Part #: CD-N-830HO-26'-AC48G1-1-EL1-1-0-W-AT

N				
INDIRECT SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH ²	MOUNTING ³	
N - None	27 2700K 30 3000K 35 3500K 40 4000K CL Custom Lumens CW Custom Watts <i>CRI, CCT & Output pg. 2</i>	Individual Fixture Continuous Row <i>Length pg. 2</i>	ACG AC to Grid _ACJB - (P)AC to J Box ACST - AC to Structure AC5G 5" Non-Power Canopy AC5JB - 5" Non-Power Canopy SQG 5" Square Canopy SQJB - 5" Square Canopy S - Surface Mount <i>Mounting pg.</i> 3	
-		-		
VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY ⁴	
U - Universal (120 thru 277V, remote) 1 - 120V 2 - 277V 3 - 347V (remote) Voltage pg. 3	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - Osram (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) Driver pg. 4	 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4 	 0 - None _FSG - Factory Select ALCR _FSB - Factory Select Battery _GI - Iota ETS DR _GB - Bodine GTD _PLL - Bodine 10W (remote) _ILL - Iota 10W (remote) _E - Emergency Section _N - Night Light Section _L - Life Safety Section Battery & Emergency pg. 4-5 	
FINISH	ENDCAPS	FIXTURE OPTIONS	CONTROLS	
N - White 5 - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color inish pg. 5	FE - Flat Endcap IB - Inward Bevel Endcap OB - Outward Bevel Endcap AT - Angled Twist Endcap Endcaps pg. 5	DSP - Customer Supplied Battery/Driver/ Sensor CP - Chicago Plenum <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different contro solutions from different manufacturers. Consult Factory for more information.	

Specify grid: GI=15/16", G9=9/16" or GS=Screw Slot. Example: AC48G1. Power over AC (PAC) is available with PL2 driver individual fixtures ONLY and NOT available with AC to Grid or AC to ST. Surface mounting (S) requires Remote Driver. 4All Battery & Emergency options are REMOTE. Enter quantity for Battery and Emergency, Example 2P.

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CHUTE CD Open Suspended Linear

CRI, CCT & Output

stom (Dutput -	Lumer	s OR Watt	age					
					•••	:6 . I	and and a ffe size of lists of h	- I	
 /				nens (i.e. CL83550			-	elow. Lumens are specified per o	olor temp
	Specify C	CRI, CCT and desired wattage (i.e. CW9407)				ify watts between stan	dard ollering listed bei	ow	
CRI									
	Color	Output ¹							
		Lumens/ft	LPW W	'atts/ft					
0	3000K	500		.3					
оно	3000K	750	116 6						
OVHO	3000K	1000		.6					
5	3500K	500	123 4						
бНО	3500K	750		.0					
5VHO	3500K	1000	125 8						
)	4000K	500		.9					
OHO	4000K	750	128 5						
очно	4000K	1000	128 7.	8					
CRI (Ior	ger lead times	a may apply, c	onsult factory)						
7	2700K	500		.2					
, 7HO	2700K	750	97 7.						
7VHO	2700K	1000		<u>,</u>).0					
0	3000K	500		.8					
, ЭНО	3000K	750	105 7.						
VHO	3000K	1000		.4					
5	3500K	500		.6					
HO	3500K	750		.8					
VHO	3500K	1000		.0					
)	4000K	500	107 4						
Ю	4000K	750	107 7.						
VHO	4000K	1000	108 9						
		1	1						
and watts/f	t based off 48'	fixture size.							
ngth									
or Standar	d Flat end ca	ap add 5/16	6" (7.6mm) to eac	ch end cap or 5/8"	(36.8	mm) to the overall	ength of the row.		
	the overall I							n) to each end cap or 1" (2	5.2mm)
	the overall l			ach end cap or 13/1		e overall length of t bage 4 for endcap o			
				each end cap or 1-7		ult factory for addit			
	3		4	5	6	7	8		
iv Eistur		Eixturo		Indiv. Fixture	o Indiv. Fixture	Indiv. Fixture	o Indiv. Fixture	– Cont. Run	
liv. Fixture		Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	maiv. Fixture	Specify nominal	
.4" (588mm)								overall row length to the foot	
	36" (914	4mm)							
		48'	′ (1219.2mm)						
				60" (1524mm)					
				· · · · · ·	" (1828.8mm)				
					· /	" (2133.6mm)			
						```´	" (2429 Amm)	1	
						96	" (2438.4mm)		
							Sn	ecify to the foot	

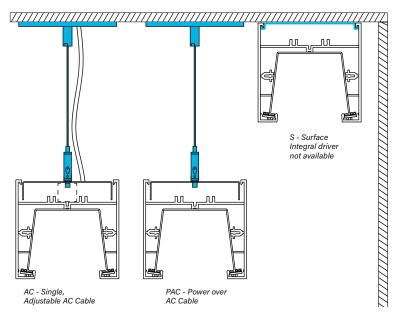


#### Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/ damp

ACG1	Aircraft Cable 1" (15/16") T-Bar
ACG9	Aircraft Cable 9/16" T-Bar
ACGS	Aircraft Cable Screw Slot T-Bar
ACJB	Aircraft Cable Junction Box
ACST	Aircraft Cable Structure
PACJB	Power over Aircraft Cable Junction Box
S	Surface Mount
AC5_G_	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQG_	Aircraft Cable 5" (127mm) Square Canopy
SQJB	Aircraft Cable 5" (127mm) Square Canopy

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting
- For integral driver version, access for wiring and drivers through the indirect side of the fixture only
- Surface Mount (S) requires remote driver.
- Power over AC (PAC) is available for PL2 Driver, INDIVIDUAL, PAC to JB FIXTURES ONLY.



#### Voltage

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

For EL1 driver, must specify 120v or 277v

U	Universal (remote)
1	120 volt
2	277 volt
3	347 volt (remote)

# CHUTE CD

Open Suspended Linear



#### Driver

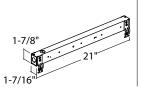
Standard Driver Option = EL1

**Integral Driver** 

- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide Some CHUTE configurations will not accommodate all driver options;
- consult with factory
- EL1 driver is integral to the fixture housing. Remote box necessary for all drivers OTHER THAN the EL1
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box

Standard Remote Box





EL1	ERP Power 1%, 0-10v, requires 120 or 277	-		
Remote Dr	iver	Slim Remote Box	Standard Remote Box	
0-10V Drivers	5			
FSD	Factory Select Driver (1%, 0-10v)			
PL2	Signify Advance Xitanium 1%, 0-10v		Very High Output (VHO), 90CRI Options	
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v			
OL2	Osram Optotronic, 1%, 0-10v	Standard Output (STD),		
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option	High Output (HO)		
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic			
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic			
<b>DALI Drivers</b>				
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)			
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)	Standard Output (STD),	Very High Output (VHO), 90CRI	
OD1	Osram Optotronic 1%, DEXAL	High Output (HO)	Options	
OD2	Osram Optotronic 1%, DALI 2 Channel			
<b>Lutron Drive</b>	'S			
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	All Configurations	NI/A	
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only	All Configurations	N/A	
Alternate Dri	vers			
EH1	ELV 120v only, 0-10v universal	All Configurations	N/A	

#### How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
- Some CHUTE configurations will not accommodate all circuiting options, consult with factory

### Circuiting

1	Single Circuit
М	Multi 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 CHUTE configurations will not accommodate all circuiting options, consult with factory

#### Battery and/or Emergency If Required

No battery or specific emergency section required

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CHUTE CD

Open Suspended Linear

Multiply battery wattage X fixture LPW shown on Lumen Table

For Approximate Battery Lumen Output

**Battery OR Emergency Ordering Examples** 

Single circuit, 10w Integral Battery

Emergency only, 10w Integral Battery

92.3 (LPW) x 10 (watts) = 923 battery lumen output



Ordering Code: 1-1PLL

Ordering Code: E-1PLL

#### Battery

- Battery is REMOTE
- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Entire fixture housing is on battery for 2' and 4' lengths
- 4' of fixture is on battery for 6' or 8' housing lengths
- PLL and ILL not available with VHO and 927HO
- For more battery options available, see Pinnacle Resource Guide

0	No Battery	
_FSB	Factory Select Battery (10w option)	
<b>_FSBST</b> Factory Select Battery (Self Testing)		
_ILL	lota 10w Integral Lithium, Self Testing	
_IRC	lota 10w Remote	
_IRH	lota 20w Remote	
_PLL	Bodine 10w Integral Lithium, Self Testing	
_PRL	Bodine 7w Remote	
_PRS	Bodine 7w Remote, Self Testing	
_PRD	Bodine 10w Remote, Dual Flex	
_PRH	Bodine 20w Remote	

#### Emergency

- GTD is REMOTE
- Select emergency type if required, indicate total QTY. Example 1E
- Emergency available in 4' increments
- Combine battery and emergency ordering codes if both options are selected

_FSG	Factory Select Automatic Load Control Relay (ALCR), UNV	Single circuit, GTD required	Ordering Code: 1-1G
_GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV		
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v	Combination Section Ordering Examples <ul> <li>Single circuit, (1) 10w battery, (1) emergency</li> </ul>	Ordering Code: 1-1PLL1E
_E	Emergency circuit	<ul> <li>Multi circuit, (2) 10w battery, (2) emergency</li> </ul>	Ordering Code: M-2PLL2E
_N	Night Light circuit	Single circuit, (2) low battery, (2) energency     Single circuit, (1) night light	Ordering Code: 1-1N
_L	Life Safety circuit section NO THROUGH WIRE	• Single circuit, (1) hight light	Ordening Code: 1-IN

#### 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 (white cord/white canopy)
S	Metallic Silver (grey cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

#### Endcaps

Endcap MUST be specified.

FE	Flat Endcap
IB	Inward Bevel Endcap
ОВ	Outward Bevel Endcap
AT	Angled Twist Endcap

#### **Fixture Options**

Additional options to enhance the fixture and finish of the product

DSP	Customer Supplied Battery/Driver/Sensor
СР	Chicago Plenum, applies to remote box

#### Controls

· Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

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## PINNAL LIGHTING®

CHUTE CD

**Open Suspended Linear** 



#### Photometrics

ITL93-69

4219 lm

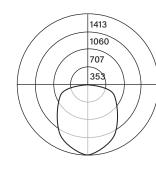
122 LPW

34.5 W

CD-N-835VHO

#### Open

Test # Catalog # Lumens Watts Efficacy



Candela Distribution								
Vert Angle	Horizontal Angle							
	0	22.5	45	67.5	90			
0	1411	1411	1411	1411	1411			
5	1410	1394	1397	1393	1386			
10	1395	1369	1360	1347	1337			
15	1369	1332	1311	1292	1280			
20	1335	1285	1256	1228	1215			
25	1289	1229	1191	1157	1141			
30	1234	1164	1117	1075	1055			
35	1169	1093	1037	986	964			
40	1095	1014	946	891	869			
45	1010	927	850	798	782			
50	918	833	751	722	716			
55	816	733	661	656	656			
60	709	627	585	598	603			
65	593	521	517	545	552			
70	476	421	456	492	500			
75	357	341	397	427	428			
80	235	272	322	299	272			
85	121	193	111	61	46			
90	31	60	40	18	0			

#### Luminance Data (cd/sq.m)

Angle In	Average	Average	Average	
Degrees	0-Deg	45-Deg	90-Deg	
45	17498	8801	7048	
55	17058	7119	5990	
65	16247	5991	5270	
75	14843	5147	4422	
85	11127	1692	536	

#### **Applications & Certificates**

**Construction:** 6063-T6 Extruded aluminum housing. Highly reflective coextruded acrylic reflector with LED protection guard.

**Mounting:** Aircraft cable and surface mount available. Straight aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 20 lbs. for a standard 4' fixture.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' 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. L70 = 146,500 hours and L90 = 45,100 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

**CRI, CCT & Output:** Three lumen packages available. Standard, High (HO), and Very High (VHO). 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 OL4 in Driver section when 347 volt (3) is selected. Some CHUTE configurations will not accommodate all voltage options; consult with factory.

**Driver:** Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. 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 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinnacle Resource Guide. Some CHUTE configurations will not accommodate all driver options.

#### Remote Mounting Guide (Advance & eldoLED)

stance infined by max input waits shown, Direct & indirect should be calculated seperately						
Max Distance	142'	107'	71′	50'	37'	

Max Distance	142	107	71	50	3/
4' Housing	4.9w/ft	6.4w/ft	9.5w/ft	13w/ft	N/A
8' Housing	N/A	3.1w/ft	4.8w/ft	6.9w/ft	9w/ft

**Circuiting:** Select from single circuit (1), Multi cricuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some CHUTE 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 painted to match fixture specified fixture finish. Contact factory for additional custom color and finish options.

**Controls:** Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Labels: ETL listed conforming to UL 1598 in US and CSA 250 in Canada. Approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 20 lbs. for a standard 4' fixture.

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

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