L Ρ С Ε RCHITECTURAL LIGHTING

Project Name

Date _

Туре

CHUTE CD <u>سنہ</u> w 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 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

Mounting pg. 3

CD - N HOUSING INDIRECT CRI, CCT & LENGTH	H MOUNTING VOLTAGE DRIVER	CIRCUITING BATTERY & FINISH ENDCA EMERGENCY	APS FIXTURE CONTROLS OPTIONS	
Ν				
INDIRECT SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH ²	MOUNTING ³	
	_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.</i> 2	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	

-		_	
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 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 (0%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) L51 - Lutron 5-Series (5%, EcoSystem) ND - Non-Dimming Driver pg. 3	 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4 	 0 - None PLL - Bodine 10W (remote) _ILL - lota 10W (remote) _E - Emergency Section _N - Night Light Section _L - Life Safety Section _G - Bodine GTD (remote) Battery & Emergency pg. 4

FINISH	ENDCAPS	FIXTURE OPTIONS	CONTROLS
W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 4</i>	FE - Flat Endcap IB - Inward Bevel Endcap OB - Outward Bevel Endcap AT - Angled Twist Endcap Endcaps pg. 4	CP - Chicago Plenum <i>Fixture Options pg.</i> 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 2', 4', 6' & 8' lengths. Continuous row come in 2' increments. ³Use first _ to specify either standard AC cable or Power over AC (PAC), then specify cable length standard AC is 48', 120'', or 240''; Specify grid: G1=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. 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

ustom	Output -		<u>ns OR v</u>	aπage				
L	Specify (Specify CRI, CCT and desired lumens (i.e. CL835500)				Specify lum	ens between standard offering	listed below. Lumens are specified per color temp
W				l wattage (i.e.		Specify wat	s between standard offering li	sted below
BO CRI								
	Color	Output	1					
	COIOI	Output						
		Lumens/ft	LPW	Watts/ft				
330	3000K	500	115	4.3				
30HO	3000K	750	116	6.5				
30VHO	3000K	1000	116	8.6				
335	3500K	500	123	4.1				
335HO	3500K	750	124	6.0				
B35VHO	3500K	1000	125	8.0				
340	4000K	500	128	3.9				
340HO	4000K	750	128	5.9				
340VHO	4000K	1000	128	7.8				
90 CRI (//	onger lead time	s may apply,	consult factory					
927	2700K	500	97	5.2				
927HO	2700K	750	97	7.7				
27VHO	2700K	1000	100	10.0				
930	3000K	500	105	4.8				
930HO	3000K	750	105	7.1				
30VHO	3000K	1000	106	9.4				
935	3500K	500	110	4.6				
935HO	3500K	750	110	6.8				
935VHO	3500K	1000	111	9.0				
940	4000K	500	107	4.7				
940HO	4000K	750	107	7.0				
940VHO	4000K	1000	108	9.3				
	′ft based off 48	" <i>Gutune eine</i>						
	TIL Daseu OII 40	lixture size.						
ength								
				o each end cap	or 5/8"		o the overall length of the	
	o the overall) to each end ca	on or 12/16"		Twist end cap add 1/2" (all length of the row.	12.6mm) to each end cap or 1" (25.2mm)
	o the overall			to each end ca	ap 01 13/10		for endcap details.	
				m) to each end	cap or 1-7/16"		tory for additional lengths	S.
2		4			6		8	-
∠ Indiv. Fixtu	re Lenath	-	div. Fixture	Length	Indiv. Fixture L	enath	Indiv. Fixture Length	
ivi i ixtu	-			Longui		ongui		Cont. Run
	24" (609	.6mm)		48" (1219.2mm				Specify nominal overall row length 2' increments.
				40 (1219.2mm		72" (1828.8mm)		
							96″ (243	38,4mm)
								Specify in 2' increments

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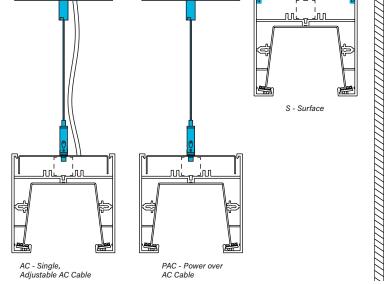
Mounting

- 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
- Power over AC (PAC) is available for PL2 Driver, INDIVIDUAL, PAC to JB FIX-TURES ONLY.





Voltage

- Some CHUTE configurations will not accommodate all voltage options; consult with factory
- For EL1 driver, must specify 120v or 277v - -Liniu .

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

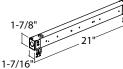
Driver

Standard Driver Option = EL1

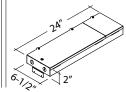
Integral Driver

- 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	Driver	Slim Remote Box	Standard Remote Box		
OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range				
OL4	Osram Optotronic 347v 1%, 0-10v, requires 347v option]			
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic	Standard Output (STD)			
EE2	eldoLED ECOdrive 1%, 0-10v Linear	High Output (HO)			
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic				
ES2	eldoLED SOLOdrive 0%, 0-10v Linear				
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1		NI / A		
L51	Lutron 5-Series 5%, EcoSystem, LDE5	All Configurations	N/A		
PL2	Advance Xitanium 1%, 0-10v				
PS1	Advance Xitanium Step Dimming 50%/100%	ming 50%/100% Standard Output (STD)			
ND	Non-Dimming	High Output (HO)			

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Open Suspended Linear

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

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 _PLL Bodine 10w, requires standard remote box PRD Bodine 10w, remote with conduit lota 10w, requires standard remote box _ILL

IRC lota 10w, remote with conduit

Em

- 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

Emerge	ency	Battery OR Emergency Ordering Examples	Battery OR Emergency Ordering Example	
 Emerger 	REMOTE emergency type if required, indicate total QTY. <i>Example 1E</i> .ncy available in 4' increments he battery and emergency ordering codes if both options are selected	Single circuit, 10w Integral Battery Emergency only, 10w Integral Battery Single circuit, GTD required Ordering Code: 1-1PLL Ordering Code: 1-1PLL Ordering Code: 1-1G	Emergency only, 10w Integral Battery	e: E-1PLL
_E	Emergency circuit	Combination Section Ordering Examples	ation Section Ordering Examples	
_N	Night Light circuit	Single circuit, (1) 10w battery, (1) emergency Ordering Code: 1-1PLL1E		1-1PLL1E
L	Life Safety circuit section NO THROUGH WIRE	Multi circuit, (2) 10w battery, (2) emergency Ordering Code: M-2PLL2E		
		Single circuit. (1) night light 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

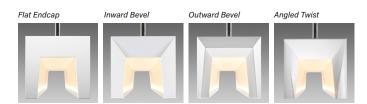
Selecting a fixture finish other than white may impact lumen output; consult factory for more information

White (white cord/white canopy)
Metallic Silver (grey cord/silver canopy)
Textured Black (black cord/black canopy)
Bronze (white cord/bronze canopy)
Graphite (white cord/graphite canopy)
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



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CHUTE CD

Open Suspended Linear



Fixture Options

Additional options to enhance the fixture and finish of the product

СР

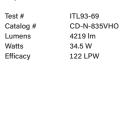
Chicago Plenum, applies to remote box

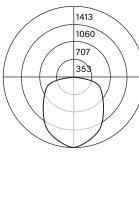
Controls

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

Photometrics

Open





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. All 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. 80 CRI = R9 \geq 5 and 90 CRI = R9 \geq 61.

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)

Distance limited by max input watts shown, Direct & Indirect should be calculaded seperately

Max Distance	142'	107'	71′	50'	37'
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.

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