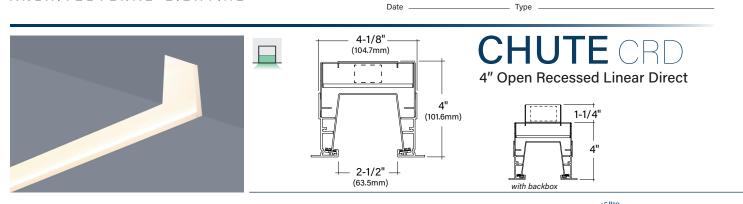
#### CLE P ARCHITECTURAL LIGHTING®

Project Name

Date \_



### **Key Features**

- Extruded aluminum trim with formed cold rolled 18 gauge steel housing and back box •

- Small, integral driver option for quick, easy installation
- Light Protection Guard (LPG) covers LEDs for optimal performance .
- . 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 #: CRD-830HO-26'-G1-U-EL1-1-0-W

CRD	TING VOLTAGE DRIVER CIRCUITING	BATTERY & FINISH FIXTURE CONTR EMERGENCY OPTIONS	ROLS
CRI, CCT & OUTPUT <sup>1</sup>	LENGTH <sup>2</sup>	MOUNTING	VOLTAGE
_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts <i>CRI, CCT &amp; Output pg. 2</i>	Individual Fixture Continuous Row <i>Length pg. 2</i>	GI - 1" (15/16") T Bar G9 - 9/16" T Bar GS - Screw Slot T Bar FL - 3/8" Flange SF - Spackle Flange Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V Voltage pg. 3
	-		
DRIVER	CIRCUITING	BATTERY & EMERGENCY <sup>3</sup>	FINISH
4" Housing EL1 - ERP Power (1%, 0-10v, 120v or 277v) Housing with Backbox FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) OL4 - eldoLED Optotronic 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) Driver pg. 3	<ul> <li>1 - Single Circuit</li> <li>M - Multi Circuit</li> <li>E - Emergency (entire fixture)</li> <li>N - Night Light (entire fixture) Circuiting pg. 4</li> </ul>	<ul> <li>0 - None</li> <li>FSB - Factory Select Battery</li> <li>FSG - Factory Select ALCR</li> <li>GI - lota ETS DR</li> <li>GB - Bodine GTD</li> <li>ILL - lota 10W (remote)</li> <li>PLL - Bodine 10W (remote)</li> <li>E - Emergency Section</li> <li>N - Night Light Section</li> <li>L - Life Safety Section</li> <li>Battery &amp; Emergency pg. 4</li> </ul>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 4

FIXTURE OPTIONS <sup>4</sup>	CONTROLS
OE - Open End (use when coming thru bulkhead) CP - Chicago Plenum DSP - Customer Supplied Battery/Driver/ Sensor FW6 - 6' Flew Whip Fixture Options pg. 5	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

<sup>1</sup>When specifying CRI, CCT & OUTPUT the first \_ is for specifying either **8** - 80CRI, **9** - 90CRI The ending \_ are for specifying output, example **HO** - High Output. <sup>2</sup>Individual fixtures come in **2**, **3**, **4**, **5**, **6**, **7** & **8**<sup>I</sup> lengths. Continuous row come in 1' increments. <sup>3</sup>Enter quantity for Battery and Emergency, Example 2P. <sup>4</sup>Open End (**OE**) option for Spackle Flange (**SF**) mounting ONLY. The Open End (**OE**) will be on one side of the fixture. Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

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

CHUTE CD Open Recessed Linear

### **CRI, CCT & Output**

• 90 CRI = R9≥50

Custom	Output -	Lumen	s OR W	attage	
CL	Specify CRI, CCT and desired lumens (i.e. CL835500)				Specify lumens between standard offering listed below. Lumens are specified per color temp
CW				wattage (i.e. CW9407)	Specify watts between standard offering listed below
80 CRI					
	Color	Output <sup>1</sup>			
			Т	1	
		Lumens/ft	LPW	Watts/ft	
830	3000K	500	115	4.3	
830HO	3000K	750	116	6.5	
830VHO	3000K	1000	116	8.6	
835	3500K	500	123	4.1	
835HO	3500K	750	124	6.0	
835VHO	3500K	1000	125	8.0	
840	4000K	500	128	3.9	
840HO	4000K	750	128	5.9	
840VHO	4000K	1000	128	7.8	
90 CRI (/c	onger lead time	s may apply, co	onsult factory)		
927	2700K	500	97	5.2	
927HO	2700K	750	97	7.7	
927VHO	2700K	1000	100	10.0	
930	3000K	500	105	4.8	
930HO	3000K	750	105	7.1	
930VHO	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	107	9.3	

<sup>1</sup>LPW and watts/ft based off 48" fixture size.

### Length

Individual units cannot be joined, end plates are factory installed and cannot be removed

Continuous Rows are made up of even and odd lengths designed to fall on grid

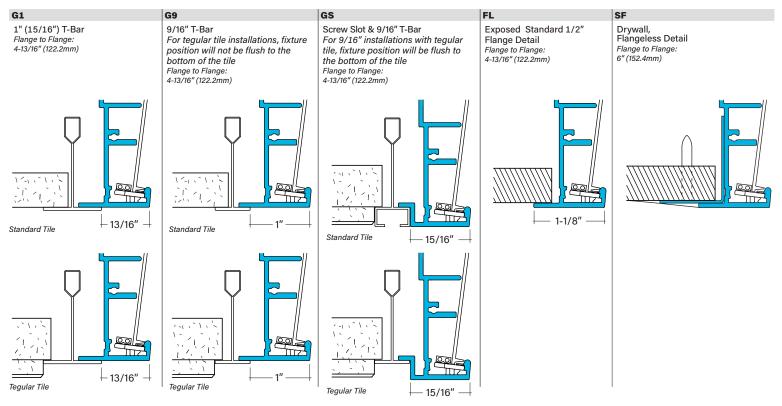
2	3	4	5	6	7	8	-
Indiv. Fixture	Cont. Run Specify nominal						
23" (584.2mm)							overall row length to the foot
	35" (889mm)						10 1110 1001
	47	" (1193.8mm)					
		59'	" (1498.6mm)				
			71'	" (1803.4mm)			
				83'	' (2108.2mm)		
					9	95" (2413mm)	
						Sp	ecify to the foot

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions. Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 CRD\_LED\_SPEC\_NOV2023

CHUTE CD Open Recessed Linear

# Mounting

- Individual units cannot be joined, end trims are factory installed and cannot be removed
- Designed to install into acoustical grid and inaccessible ceilings Grid retention brackets to be installed on site and require mechanical attachment
- Each housing contains four grid retention brackets
- Tie off fixture to structure with retention wires
- Approved for dry/damp location unless otherwise noted



### Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt

### Driver

- Standard Driver Option = EL1 .
- 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
- Backbox necessary for all drivers OTHER THAN the EL1

4" Housing	
EL1	ERP Power 1%, 0-10v, requires 120 or 277
Housing w	ith Back Box
0-10V Drivers	
FSD	Factory Select Driver (1%, 0-10v)
PL2	Signify Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option
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)
OD1	eldoLED Optotronic 1%, DEXAL
OD2	eldoLED Optotronic 1%, DALI 2 Channel
<b>Lutron Driver</b>	S
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only
Alternate Driv	/ers
EH1	ELV 120v only, 0-10v universal

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions. Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568

CRD\_LED\_SPEC\_NOV2023

CHUTE CD Open Recessed 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

#### Batterv

- 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
- No battery option available for 2' lengths
- Entire fixture housing is on battery for 2' and 4' lengths 4' of fixture is on battery for 6' or 8' housing lengths

For more battery options available, see Pinnacle Resource Guide

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

### Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section ordering codes if both options are sel

/	Battery OR Emergency Ordering Examples	S
ency section type if required, indicate total QTY. Example 1E	Single circuit, 10w Integral Battery	Ordering Code: 1-1PLL
ery and emergency section ordering codes if both options are selected	<ul> <li>Emergency only, 10w Integral Battery</li> </ul>	Ordering Code: E-1PLL
Factory Select Automatic Load Control Relay (ALCR), UNV	<ul> <li>Single circuit, GTD required</li> </ul>	Ordering Code: 1-1G
Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV	Combination Section Ordering Examples	
Bodine GTD, Generator Transfer Device, 120v or 277v	Single circuit, (1) 10w battery, (1) emergency section	Ordering Code: 1-1PLL1E
Emergency circuit section	<ul> <li>Multi circuit, (2) 10w battery, (2) emergency sections</li> </ul>	Ordering Code: M-2PLL2E
Night Light circuit section	Single circuit, (1) night light section	Ordering Code: 1-1N
	Single cheat, (1) inght ight occurring	

### Finish

\_FSG

GI

GB

Е

\_N

L

- 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
- Closed endcap on recessed fixtures will be painted white, not a specified color. Consult Factory.

Life Safety circuit section NO THROUGH WIRE

W	White
S	Metallic Silver
BL	Textured Black
GR	Graphite
BR	Bronze
СС	Custom Color

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 CRD\_LED\_SPEC\_NOV2023

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

CHUTE C

**Open Recessed Linear** 



# **Fixture Options**

Additional options to enhance the fixture and finish of the product The Open End will only be on one side of the fixture.

OE	Open End Fixture, use to come thru bulkhead, SF ONLY
СР	Chicago Plenum
DSP	Customer Supplied Battery/Driver/Sensor
FW6	6' Flex Whip

# Controls

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

# **Photometrics**

ITL93073

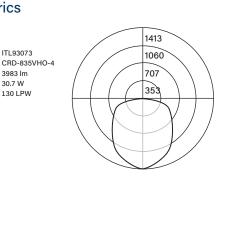
3983 lm

130 LPW

30.7 W

### 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: Extruded aluminium rails and formed cold-rolled 18 gauge steel housing. Highly reflective coextruded acrylic reflector with LED protection guard.

Mounting: CHUTE is designed to install into acoustical grid and inaccessible ceilings. Specify GXG, FLF, SFS for individual, unjoinable units (individual units will fall on-grid). Specify GX, FL, SF for continuous runs (runs designed to fall on-grid). Consult factory for detailed installation instructions. Maximum fixture weight is 15lbs per 4' fixture.

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. Lifetime Projection L70 = 146,500 hours and L90 = 45,000 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Lumen 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≥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 driver backbox. 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 81°F/27°C, preliminary using 4" data. 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.

Circuiting: Select from single circuit (1), Multi circuit - For multiple circuiting and zone control, requires factory shop drawing (M), Emergency circuit (E), Life Safety (L) 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 or for additional custom color and finish options.

Labels: UL and cUL 1598 listed. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 15lbs per 4' fixture.

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

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

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions

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