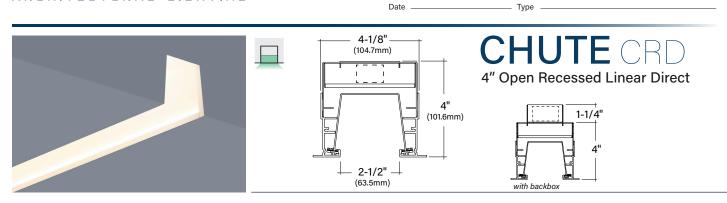
Ρ CLE ARCHITECTURAL LIGHTING®

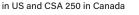
Project Name

Date _



Key Features

- Extruded aluminum trim with formed cold rolled 18 gauge steel housing and back box •
- Room side maintance for LED system Recessed 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 .
- 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





CRD HOUSING	■ CRI, CCT & OUTPUT	- LENGTH	MOUNTIN	NG VOLTAGE	- DRIVER	CIRCUITING	BATTERY & EMERGENCY	- FINISH	FIXTURE OPTIONS	CONTR	BOLS
	CRI, CCT &	OUTPUT ¹			LENGTH ²			MOUI	NTING		VOLTAGE
_27: _30: _35:	3000K 3500K		-	- Individual F - Continuous Length pg. 2			G1(G) - 1" (i G9(G) - 9/1 GS(G) - Sci	6″ T Bar rew Slot T I			U - Universal (120 thru 277V) 1 - 120V 2 - 277V

_35 3500K _40 4000K CL Custom Lumens CW Custom Watts CRI, CCT & Output pg. 2	FL(F) - 3/8" Flange	2 - 277V 3 - 347V Voltage pg. 3

	-		
DRIVER	CIRCUITING	BATTERY & EMERGENCY ³	FINISH
4" Housing EL1 - ERP Power (1%, 0-10v, 120v or 277v) Housing with Backbox 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 	 O - None PLL - Bodine 10W (remote) _ILL - lota 10W (remote) _E - Emergency Section _N - Night Light Section _L - Life Safety Section _G - Philips Bodine GTD Battery & Emergency pg. 4 	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish pg. 4

FIXTURE OPTIONS ⁴	CONTROLS
OE - Open End (use when coming thru bulkhead) CP - Chicago Plenum FW6 - 6' Flew Whip <i>Fixture Options pg.</i> 4	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, 9 - 90CRI The ending _ are for specifying output, example HO - High Output. ²Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1' increments. ³Enter quantity for Battery and Emergency, Example 2P. ⁴Open End (OE) option for Spackle Flange (SF) mounting ONLY.

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.



CHUTE CD Open Recessed Linear

CRI, CCT & Output

80 CRI = R9≥5, 90 CRI = R9≥61

Custom	Output -	- Lumen	s OR V	Vattage			
CL	Specify (CRI, CCT ai	nd desire	d lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp		
CW	Specify (CRI, CCT ai	nd desire	d wattage (i.e. CW9407)	Specify watts between standard offering listed below		
80 CRI							
	Color	Output ¹					
			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 (/	onger lead time	s may apply, co	onsult factor	y)			
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	108	9.3			

¹LPW 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

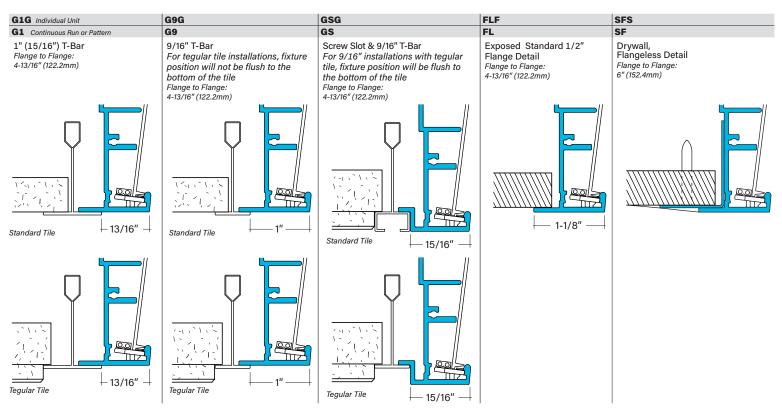
2	3	4	5	6	7	8	-
Indiv. Fixture	Cont. Run Specify nominal						
23" (584.2mm)							overall row length
	35" (889mm)						to the foot
	47	" (1193.8mm)					
		59'	' (1498.6mm)				
			71'	" (1803.4mm)			
				83'	' (2108.2mm)		
						95" (2413mm)	
						Sp	ecify to the foot

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CHUTE CD Open Recessed Linear

Mounting

- Individual Units, specify G_G, FLF, SFS
- Continuous Units, specify G_, FL, SF
- 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, 120v or 277v
Housing wi	th Backbox
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
EE2	eldoLED ECOdrive 1%, 0-10v Linear
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
L51	Lutron 5-Series 5%, EcoSystem, LDE5
PL2	Advance Xitanium 1%, 0-10v
PS1	Advance Xitanium Step Dimming 50%/100%
ND	Non-Dimming

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pg. 3

CHUTE C

Open Recessed Linear





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
Ν	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

- 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

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

Ordering Code: 1-1PLL

Ordering Code: E-1PLL

Ordering Code: 1-1G

Battery OR Emergency Ordering Examples Single circuit, 10w Integral Battery

Emergency only, 10w Integral Battery

Single circuit, GTD required

0	No battery
_PLL	Bodine 10w, requires back box
_PR	Bodine 10w, remote with conduit
_ILL	lota 10w, requires back box
_IRC	lota 10w, remote with conduit
F	

Emergency

Select emergency section type if required, indicate total QTY. Example 1E

 Combine 	Combine battery and emergency section ordering codes if both options are selected							
_E	Emergency circuit section	Combination Section Ordering Examples						
_N	Night Light circuit section	 Single circuit, (1) 10w battery, (1) emergency section 	Ordering Code: 1-1PLL1E					
_L	Life Safety circuit section NO THROUGH WIRE	 Multi circuit, (2) 10w battery, (2) emergency sections 	Ordering Code: M-2PLL2E					
_G	Bodine GTD, Generator Transfer Device section	- 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
- Closed endcap on recessed fixtures will be painted white, not a specified color. Consult Factory.

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

Fixture Options

Additional options to enhance the fixture and finish of the product

OE	Open End Fixture, use to come thru bulkhead, SF ONLY			
СР	Chicago Plenum			
FW6	6' Flex Whip			

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CHUTE C

Open Recessed Linear



Controls

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

Photometrics

ITL93073

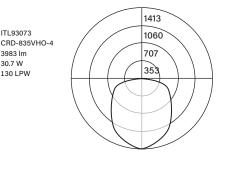
3983 lm

130 I PW

30.7 W

Open

Test # Catalog # Lumens Watts Efficacy



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		

Candela Distribution

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. 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. 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. 80 CRI = R9≥5 and 90 CRI = R9≥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 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: ETL listed confroming to UL 1598 in US and CSA 250 in Canada. 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.