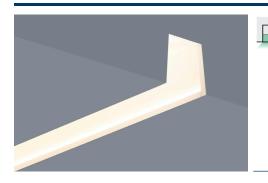
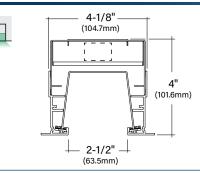
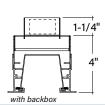
Туре







4" Open Recessed Linear Direct



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 ½" 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**











Example Part #: CRD-830HO-26'-G1-U-EL1-1-0-W

CRD .									.	-
HOUSING	CRI, CCT & OUTPUT	LENGTH	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS

CRI, CCT & OUTPUT ¹	LENGTH ²	MOUNTING	VOLTAGE
	Individual Fixture Continuous Row Length pg. 2	G1(G) - 1" (15/16") T Bar G9(G) - 9/16" T Bar GS(G) - Screw Slot T Bar FL(F) - 3/8" Flange SF(S) - Spackle Flange Mounting pg. 3	U - Universal (120 thru 277V) 1 - 120V 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 OPTIONS⁴	CONTROLS
OE - Open End (use when coming thru bulkhead) CP - Chicago Plenum FW6 - 6' Flew Whip Fixture Options pg. 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.



CRI, CCT & Output

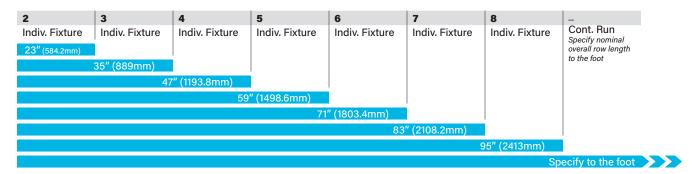
80 CRI = R9≥5, 90 CRI = R9≥61

Custom	Output -	Lumen	s OR Wa	attage			
CL				lumens (i.e. CL83	(35500) Specify lumens between standard offering listed below. Lumens are specified per color temp		
CW							
80 CRI							
	Color	Output ¹					
			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 (la	nger lead times	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	108	9.3			

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



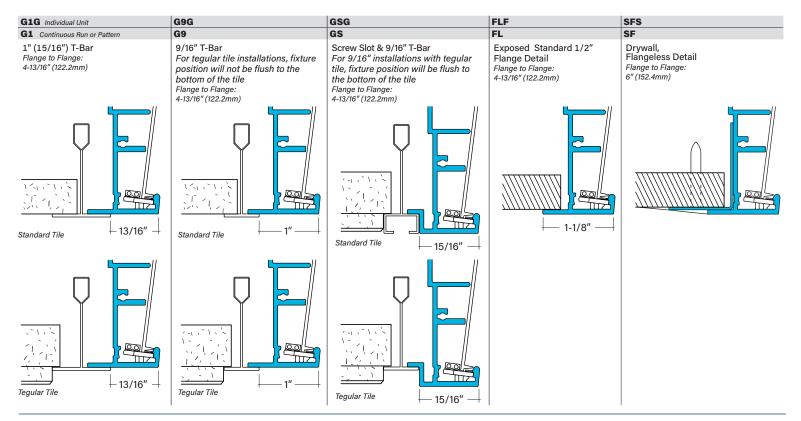
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CRD_LED_SPEC_APRIL2021 pg. 2

pg. 3

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 with 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			
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic			
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			
ND	Non-Dimming			

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CRD_LED_SPEC_APRIL2021

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
M	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

- 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
_PLL	Bodine 10w, requires back box
_PRD	Bodine 10w, requires back box
_ILL	lota 10w, requires back box
_IRC	lota 10w, remote with conduit

Emergency

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

_E	Emergency circuit section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE
_G	Bodine GTD, Generator Transfer Device section

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

Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery
- Emergency only, 10w Integral Battery
- Single circuit, GTD required

Ordering Code: 1-1PLL Ordering Code: E-1PLL

Ordering Code: 1-1G

Ordering Code: 1-1PLL1E

pg. 4

• Multi circuit, (2) 10w battery, (2) emergency sections Single circuit, (1) night light section

• Single circuit, (1) 10w battery, (1) emergency section

Combination Section Ordering Examples

Ordering Code: M-2PLL2E 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
CC	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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Controls

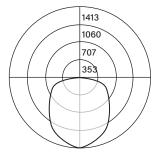
Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Photometrics

Open

Test #
Catalog #
Lumens
Watts
Efficacy

ITL93073 CRD-835VHO-4 3983 lm 30.7 W 130 LPW



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. 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

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