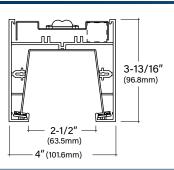
roject Name			

Type







CHUTE CDI

4" Open Suspended Linear Direct/Indirect

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
- 4 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 #: CDI-BW-830HO-830-26'-AC48G1-1-EL1-1-0-W-AT

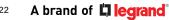
CDI - BW INDIRECT DIRECT INDIRECT LENGTH MOUNTING VOLTAGE DRIVER CIRCUITING BATTERY & ENDCAPS CONTROLS SHIELDING OUTPUT OUTPUT **EMERGENCY**

INDIRECT SHIELDING	DIRECT CRI, CCT & OUTPUT ¹	INDIRECT CRI, CCT & OUTPUT ¹	LENGTH ²
BW - Batwing	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Direct CRI, CCT & Output pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Direct CRI, CCT & Output pg. 2	Individual Fixture Continuous Row <i>Length pg.</i> 3

	_		-
MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
ACG AC to Grid ACJB - AC to J Box ACST - AC to Structure AC5G 5" Non-Power Canopy AC5JB - 5" Square Canopy SQG 5" Square Canopy SQJB - 5" Square Canopy Mounting pg. 3	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) OL4 - Osram (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) Driver pg. 4	1 - Single Circuit 2 - Dual Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4

BATTERY & EMERGENCY⁴	FINISH	ENDCAPS	FIXTURE OPTIONS	CONTROLS
O - None _FSG - Factory Select ALCR _GI - lota ETS DR _GB - Bodine GTD _PRD - Bodine 10W (remote) _IRC - lota 10W (remote) _E - Emergency Section _N - Night Light Section _L - Life Safety Section Battery & Emergency pg. 4	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color Finish 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 Fixture Options pg. 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. 2 Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1' increments. 3 Specify cable length standard AC is 48", 120", or 240"; Specify grid: G1=15/16", G9=9/16" or GS=Screw Slot. Example: AC48G1 All Battery & Emergency options are REMOTE. Enter quantity for Battery and Emergency, Example 2P.







CRI, CCT & Output

80 CRI = R9≥5, 90 CRI = R9≥61

Custom Output - Lumens OR Wattage ___ Specify CRI, CCT and desired lumens (i.e. CL835500) Specify lumens between standard offering listed below. Lumens are specified per color temp Specify CRI, CCT and desired wattage (i.e. CW9407) Specify watts between standard offering listed below

Direct 80 CRI

	Color	Output ¹		
830	3000K	Lumens/ft	<i>LPW</i> 115	Watts/ft
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

Direct 90 CRI (longer lead times may apply, consult 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

Indirect 80 CRI

	Color	Lumens per foot	Shielding ¹ BW Batwing	
830	3000K	500	143	Watts/ft
830HO	3000K	750	144	5.2
830VHO	3000K	1000	144	6.9
835	3500K	500	153	3.3
835HO	3500K	750	155	4.8
835VHO	3500K	1000	155	6.4
840	4000K	500	159	3.2
840HO	4000K	750	160	4.7
840VHO	4000K	1000	159	6.3

Indirect 90 CRI (longer lead times may apply, consult factory)

927	2700K	500	120	4.2
927HO	2700K	750	120	6.2
927VHO	2700K	1000	121	8.2
930	3000K	500	130	3.8
930HO	3000K	750	131	5.7
930VHO	3000K	1000	131	7.6
935	3500K	500	136	3.7
935HO	3500K	750	137	5.5
935VHO	3500K	1000	137	7.3
940	4000K	500	132	3.8
940HO	4000K	750	133	5.7
940VHO	4000K	1000	133	7.5

LPW and watts/ft based off 48" fixture size, see IES files for specific fixture length.

Length

- For Standard Flat end cap add 5/16" (7.6mm) to each end cap or 5/8"
- (15.2mm) to the overall length of the row.
- For Inward Bevel end cap add 13/32" (10.1mm) to each end cap or 13/16" (20.2mm) to the overall length of the row.
- For Outward Bevel end cap add 23/32" (18.4mm) to each end cap or 1-7/16"
- (36.8mm) to the overall length of the row.
- For Angled Twist end cap add 1/2" (12.6mm) to each end cap or 1" (25.2mm) to the overall length of the row.
- See page 5 for endcap details
- Consult Factory for additional length options



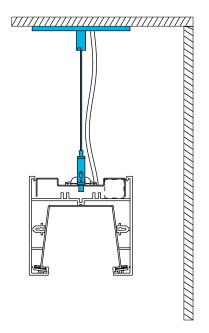
Fixture lengths do not include endcap dimensions. See bullet points listed above for each endcap. Example: 2' fixture (24") + 2 Standard Flat Endcaps (5/8") = 24 5/8" overall.

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

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
AC5G_	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQG_	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 25 lbs for a standard 4' fixture
- AC_GS works with screw slot and bolt slot grid ceiling types
- 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



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)



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

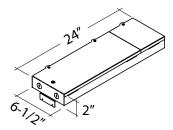
Integral Dri	Integral Driver			
EL1	ERP Power 1%, 0-10v, requires 120 or 277			
Remote Dri	ver			
0-10V Drivers				
FSD	Factory Select Driver (1%, 0-10v)			
PL2	Signify Advance Xitanium 1%, 0-10v			
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v			
OL2	Osram Optotronic, 1%, 0-10v			
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option			
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic			
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic			
DALI Drivers				
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)			
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)			
OD1	Osram Optotronic 1%, DEXAL			
OD2	Osram Optotronic 1%, DALI 2 Channel			
Lutron Drivers				

Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1

Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only

- 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

Standard Remote Box



How to specify Circuiting, Battery and Emergency



LH1

LH4

Alternate Drivers

Select fixture circuiting from options below

ELV 120v only, 0-10v universal

Some CHUTE configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
2	Dual 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

- 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
- VHO and 90 CRI, HO not available with remote driver
- For more battery options available, see Pinnacle Resource Guide

0	No Battery				
_ILL	Iota 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				

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

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 ALCR, Automatic Load Control Relay
_GI	Iota ETS DR, Emergency Lighting Control Device
_GB	Bodine GTD, Emergency Lighting Control Device
_E	Emergency circuit
_N	Night Light circuit
_L	Life Safety circuit section NO THROUGH WIRE

Battery OR Emergency Ordering Examples

- Ordering Code: 1-1PLL Single circuit, 10w Integral Battery
- Emergency only, 10w Integral Battery
- Single circuit, GTD required
- Ordering Code: E-1PLL Ordering Code: 1-1G

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency
- Multi circuit, (2) 10w battery, (2) emergency
- Single circuit, (1) night light

Ordering Code: 1-1PLL1E 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

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)

Fixture Options

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.

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

CDI_LED_SPEC_OCT2022

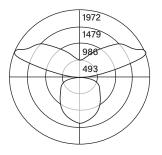


Photometrics

Open - Batwing

ITL93069 & 94661 Test # Catalog # CDI-BW-835VHO-835VHO-4

Lumens 8894 lm Watts 64.3 W Efficacy 138.3 LPW



Candela Distribution

Horizontal Angle Angle

rangic						
	0	22.5	45	67.5	90	
0	1411	1411	1411	1411	1411	
5	1410	1394	1397	1393	1386	
15	1369	1332	1311	1292	1280	
25	1289	1229	1191	1157	1141	
35	1169	1093	1037	986	964	
45	1010	927	850	798	782	
55	818	735	662	656	656	
65	597	524	519	545	552	
75	362	346	401	428	428	
85	126	200	116	62	46	
90	39	116	139	111	100	
95	101	229	303	262	232	
105	264	416	623	682	641	
115	440	573	809	1052	1100	
125	579	720	969	1216	1294	
135	681	824	1105	1333	1409	
145	779	880	1129	1351	1435	
155	867	915	1068	1194	1250	
165	932	950	1008	1060	1081	
175	964	967	973	978	982	
180	967	967	967	967	967	

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17498	8801	7048
55	17100	7130	5990
65	16357	6014	5270
75	15051	5199	4422
85	11586	1768	536

Applications & Certificates

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

Mounting: Aircraft cable mounting. 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 25 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 = 45,000 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 & 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 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 25 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.