Ρ L С Ε RCHITECTURAL LIGHTING

Project Name

Date _

Туре

CHUTE CD w ىرىنى م 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 .



Battery & Emergency pg. 4-5

A brand of **Carand**

Example Part #: CD-N-830HO-26'-AC48G1-1-EL1-1-0-W-AT

CL Custom Lumens L_xL Shape AC5_JB-5" Non-Power Can CW Custom Watts U_x_xU Shape SQ_G_5" Square Canopy CRI, CCT & Output pg. 2 Y_x_xY Shape SQ_JB-5" Square Canopy T_x_xT Shape S_Surface Mount	T & LENGTH MOUNTING VOLTAGE DRIVER CIRCUITING BATTERY & FINISH T	ENDCAPS FIXTURE CONTROLS OPTIONS
N - None _27 2700K Individual Fixture ACG AC to Grid _30 3000K Continuous Row _ACJB - (P)AC to J Box _35 3500K S Square ACST - AC to Structure _40 4000K R_x Rectangle AC5JB - 5" Non-Power Car CL Custom Lumens L_x L Shape AC5JB - 5" Non-Power Car CW Custom Watts U_x_x U Shape SQG - 5" Square Canopy CRI, CCT & Output pg. 2 Y_x_x Y Shape SQJB - 5" Square Canopy		
_30 3000K Continuous Row _ACJB - (P)AC to J Box _35 3500K S Square ACST - AC to Structure _40 4000K R_x - Rectangle AC5G 5" Non-Power Car CL Custom Lumens L_x - L Shape AC5G 5" Non-Power Car CW Custom Watts U_x _ x U Shape SQG 5" Square Canopy CRI, CCT & Output pg. 2 Y_x _ x Y Shape SQIB - 5" Square Canopy T_x _ x T Shape Sufface Mount Source Conopy	CRI, CCT & OUTPUT ¹ LENGTH ²	MOUNTING ³
X_X_X_X_X_X_Shape Mounting pg. 3 Length pg. 2-3 Mounting pg. 3	_30 3000K Continuous Row _35 3500K S Square _40 4000K R_x - Rectangle CL Custom Lumens L_x_ L Shape CW Custom Watts U_x_x U Shape CRI, CCT & Output pg. 2 Y_x_ x Y Shape T_x_x T Shape X_x_ x X Shape	_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

-		-	
VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY⁴
U - Universal (120 thru 277V, remote) 1 - 120V 2 - 277V 3 - 347V (remote) Voltage pg. 4	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) OL2 - Osram (1%, 0-10v) OL4 - Osram 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. 4	 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4 	 0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - lota ETS DR GB - Bodine GTD ILL - lota 10W (remote) PLL - Bodine 10W (remote) E - Emergency Section N - Night Light Section L - Life Safety Section

FINISH	ENDCAPS	FIXTURE OPTIONS	CONTROLS
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. ²Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1' 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. Surface mounting (S) requires Remote Driver. 4All Battery & Emergency options are REMOTE. Enter quantity for Battery and Emergency, Example 2P.

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CRI, CCT & Output

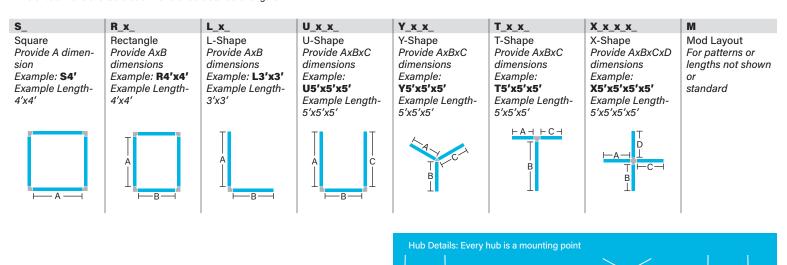
90 Chi = h	9≥50								
ustom	Output -	Lumen	s OR Wat	tage					
L	Specify CRI, CCT and desired lumens (i.e. CL8401380)			80) Max	lumens: 1,380. Max lum	ens dependent on col	or temp. Consult factory for more information		
w				attage (i.e. CW940		watts: 10.8. Consult fac	tory for more informat	ion	-
0 CRI				-	·				
	Color	Output ¹							
	COIOI	Output							
		Lumens/ft	LPW	Watts/ft					
30	3000K	500		4.3					
30HO	3000K	750		6.5					
30VHO	3000K	1000		8.6					
35	3500K	500	123	4.1					
35HO	3500K	750	124	6.0					
35VHO	3500K	1000	125	8.0					
0	4000K	500		3.9					
юно	4000K	750		5.9					
10VHO	4000K	1000	128	7.8					
D CRI (I	onger lead time	s may apply, c	onsult factory)						
27	2700K	500	1	5.2					
27HO	2700K	750		7.7					
27VHO	2700K	1000		10.0					
30	3000K	500		4.8					
воно	3000K	750		7.1					
BOVHO	3000K	1000	106	9.4					
35	3500K	500	110	4.6					
B5HO	3500K	750	110	6.8					
35VHO	3500K	1000		9.0					
40	4000K	500		4.7					
40HO	4000K	750		7.0					
10VHO	4000K	1000	108	9.3					
ength For Standa (15.2mm) t For Inward (20.2mm) t	to the overall Bevel end ca to the overall	ap add 5/16 length of the ap add 13/3 length of the	e row. 2" (10.1mm) to e row.	ach end cap or 5/8" each end cap or 13/1 to each end cap or 1-7	• For A 6" to th • See	mm) to the overall I Angled Twist end ca e overall length of tl aage 4 for endcap c sult factory for addit	p add 1/2" (12.6m he row. letails.	m) to each end cap or 1″ (25.2mm)	
	3		4	5	6	7	8	-	
ndiv. Fixtu	re Indiv.	Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal	
24" (588mr	n)							overall row length	
	36" (914.	4mm)						to the foot	
			' (1219.2mm)						
				60″ (1524mm)					
				72	." (1828.8mm)				
				72		" (2133.6mm)			
				72			" (2438.4mm)		

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Pattern

- Patterns are made using non illuminated connector
- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- Angles and shapes not shown require Mod Pattern; consult factory

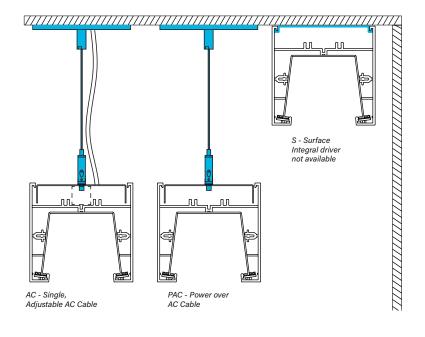




- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm)
- non-power 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 Refer to installation instructions during installation at the job site

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	

- 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
- Surface Mount (S) requires remote driver.
- Power over AC (PAC) is available for PL2 Driver, INDIVIDUAL, PAC to JB FIXTURES ONLY.



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Voltage

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

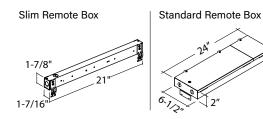
U	Universal (remote)
1	120 volt
2	277 volt
3	347 volt (remote)

Driver

Standard Driver Option = EL1

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



<u> </u>	Differ			
EL1	ERP Power 1%, 0-10v, requires 120 or 277			
Remote	e Driver	Slim Remote Box	Standard Remote Box	
0-10V Dri	ivers			
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	Standard Output (STD),	Very High Output (VHO), 90CR Options	
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option	High Output (HO)	Options	
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic			
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic	1		
DALI Driv	vers			
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)			
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)	Standard Output (STD),	Very High Output (VHO), 90CR	
OD1 Osram Optotronic 1%, DEXAL		High Output (HO)	Options	
OD2	Osram Optotronic 1%, DALI 2 Channel			
Lutron Di	rivers			
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	All Configurations	N//A	
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only	All Configurations	N/A	
Alternate	Drivers			
EH1	ELV 120v only, 0-10v universal	All Configurations	N/A	

How to specify Circuiting, Battery and Emergency

0

Select fixture circuiting from options below

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

Circuiting

1	Single Circuit
Μ	Multi Circuit
E	Emergency Circuit only
Ν	Night Light Circuit only

3

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

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Multiply battery wattage X fixture LPW shown on Lumen Table

For Approximate Battery Lumen Output

• 92.3 (LPW) x 10 (watts) = 923 battery lumen output

Battery OR Emergency Ordering Examples

Single circuit, 10w Battery



Ordering Code: 1-1PLL

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
_FSB	Factory Select Battery (10w option, remote in box)
_FSBST	Factory Select Battery (10w, Self Testing, remote in box)
_ILL	lota 10w Integral (Self Testing, remote in box)
_IRC	lota 10w (remote with conduit)
_IRH	lota 20w (remote with conduit)
_PRL	Bodine 7w (remote with conduit)
_PRS	Bodine 7w (Self Testing, remote with conduit)
_PRH	Bodine 20w (remote with conduit)
_PLL	Bodine 10w Integral (remote in box)
_PRD	Bodine 10w (Dual Flex, remote with conduit)

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 Automatic Load Control Relay (ALCR), UNV	Emergency only, 10w Battery Single circuit, GTD required	Ordering Code: E-1PLL Ordering Code: 1-1G
_GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV	Combination Section Ordering Examples	
_GB	Bodine GTD, Generator Transfer Device, 120v or 277v	 Single circuit, (1) 10w battery, (1) emergency 	Ordering Code: 1-1PLL1E
_E	Emergency circuit	 Multi circuit, (2) 10w battery, (2) emergency 	Ordering Code: M-2PLL2E
_N	Night Light circuit	 Single circuit, (1) night light 	Ordering Code: 1-1N
_L	Life Safety circuit section NO THROUGH WIRE		Ordening Code. 1-IN

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)	

Endcaps

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 th	e fixture and	I finish of the product	
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DSP	Customer Supplied Battery/Driver/Sensor
P	Chicago Plenum, applies to remote box
•.	

Controls

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

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PINNAL LIGHTING®

CHUTE CD

Open Suspended Linear



Photometrics

ITL93-69

4219 lm

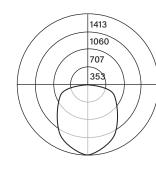
122 LPW

34.5 W

CD-N-835VHO

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: 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. 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. 90 CRI = R9 \geq 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 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	d be calculated	l separately	

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 circuit (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: UL and cUL 2108 or 1598 listed depending on product configuration. 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.