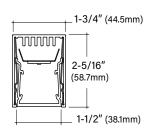
e \_\_\_\_\_ Type \_\_\_\_









# **EDGE** EX12

1" x 2" Suspended Direct Linear

# Key Features

- Requires a remote mounted driver/battery per fixture
- 6063-T5 Extruded aluminum housing
- Highly reflective die-formed white painted reflector
- 5-year limited warranty covers LED, driver and fixture
- UL and cUL listed
- Approved for dry/damp location unless otherwise noted
- Maximum weight is 10 lbs. for a standard 4' fixture
- Buy American Act compliant













Example Part #: EX12-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX12	-	- N	-		-	-	-	-	-	-
	DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCT & OUTPUT	LENGTH OR PATTERN	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH

	N		
DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE <sup>1</sup>	LENGTH OR PATTERN <sup>2</sup>
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver Shielding pg. 2	<b>N</b> - None Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts MOD - Mod options available Lumen Output pg. 2	Individual FixtureContinuous Row SSquare R_xRectangle L_xLShape U_x_xU-Shape T_xT-Shape X_xV-Shape MOD - Mod options available Length and Pattern pg. 3

	_		_
MOUNTING <sup>3</sup>	VOLTAGE	DRIVER	CIRCUITING
ACG_R AC to Grid ACJBR AC to J Box ACSTR AC to Structure WA - Wall Mount S - Surface Mount AC5G_R 5" Non-Power Canopy AC5JBR 5" Non-Power Canopy SQG_R 5" Square Canopy SQJBR 5" Square Canopy Mounting pg. 4	<b>U -</b> Universal (120 thru 277V) <b>1 -</b> 120V <b>2 -</b> 277V <b>3 -</b> 347V Voltage pg. 4	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (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) PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) Driver pg. 4	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 5

BATTERY & EMERGENCY <sup>4</sup> O - None  FSG - Factory Select ALCR GI - Jota ETS DR  BI - Textured Black  CONTROLS  Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.			
_FSG - Factory Select ALCR S - Metallic Silver solutions from different manufacturers. Consult	BATTERY & EMERGENCY4	FINISH	CONTROLS
GB - Bodine GTD PLL - Bodine 10W (low profile) E - Emergency Section N - Night Light Section L - Life Safety Section ILL - lota 10W Integral Battery and Emergency pg. 5  BE - Bronze GR - Graphite CC - Custom Color Finish pg. 5	_FSG - Factory Select ALCR _GI - lota ETS DR _GB - Bodine GTD _PLL - Bodine 10W (low profile) _E - Emergency Section _N - Night Light Section _L - Life Safety Section _ILL - lota 10w Integral	S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color	

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. <sup>2</sup>Individual fixtures come in 2, 3, 4, 5, 6, 7, & 8' lengths.Continuous row come in 1' increments. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4' <sup>3</sup>Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot; All EX12 fixtures require a remote driver. Distance from Remote Box to Fixture cannot exceed 10ft. Based on the size and application of the remote box, specify RB (Remote Box) or RC (Remote Canopy) at the end of the Mounting portion of the part number. See page 3 for details. Wall Mount and Surface Mount options only work with RB. <sup>4</sup>Enter quantity for Battery and Emergency, Example 2PL.

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# Shielding

DIRECT INDIRECT HED HE N Satine Lens **High Efficiency Batwing Insert** Asymmetric Insert Parabolic Louver **Descent Lens** None Lens

# Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.

• 80 CRI = R9≥19 and 90 CRI = R9≥61

# **Custom Output-Lumens OR Wattage**

CL	Specify CRI, CCT and desired lumens (i.e. CL835700)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW	Specify CRI, CCT and desired wattage (i.e. CW9406)	Specify watts between standard offering listed below

### 80 CRI

	Color	Output	Watts	Shieldin	g										
			per foot	A		HE		BW		WHE		P		HED	
				Satine Le	ens	High Effi	ciency	Batwing		Asymme	tric	Louver		Descent	
				Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW
830	3000K	Standard	4.5	347	77.1	412	91.6	327	72.7	365	81.1	273	60.7	377	83.8
830HO	3000K	High	8.6	641	74.5	761	88.5	604	70.2	676	78.6	504	58.6	698	81.2
835	3500K	Standard	4.5	357	79.3	424	94.2	336	74.7	376	83.6	281	62.4	388	86.2
835HO	3500K	High	8.6	658	76.6	782	90.9	621	72.2	695	80.8	519	60.3	717	83.4
840	4000K	Standard	4.5	365	81.0	432	96.0	343	76.2	383	85.1	286	63.6	396	88.0
840HO	4000K	High	8.6	670	77.8	797	92.7	633	73.6	708	82.3	529	61.5	731	85.0
90 CRI															
927	2700K	Standard	4.5	274	60.8	325	72.2	259	57.6	289	64.2	216	48.0	298	66.2
927HO	2700K	High	8.6	506	58.8	601	69.9	478	55.6	534	62.1	399	46.4	551	64.1
930	3000K	Standard	4.5	320	71.1	380	84.4	302	67.1	337	74.9	252	56.0	348	77.3
930HO	3000K	High	8.6	591	68.7	701	81.5	557	64.8	623	72.4	465	54.1	643	74.8
935	3500K	Standard	4.5	321	71.3	382	84.9	303	67.3	339	75.3	253	56.2	349	77.6
935HO	3500K	High	8.6	592	68.8	704	81.9	559	65.0	625	72.7	467	54.3	645	75.0
940	4000K	Standard	4.5	326	72.4	386	85.8	306	68.0	342	76.0	256	56.9	354	78.7
940HO	4000K	High	8.6	598	69.5	711	82.7	565	65.7	632	73.5	472	54.9	653	75.9

# **Direct Source: MOD Options**

- Specify MOD in the part number for any of the below options
- All RGB\_ Source Options will require specific driver and control

· Consult factory for MOD specification details, pricing, and lead-time information

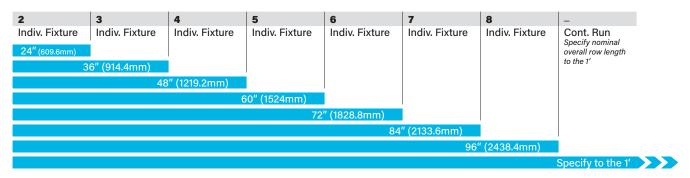
MOD TIR Optics

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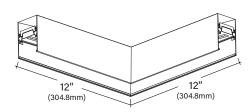
pg. 2

# Length

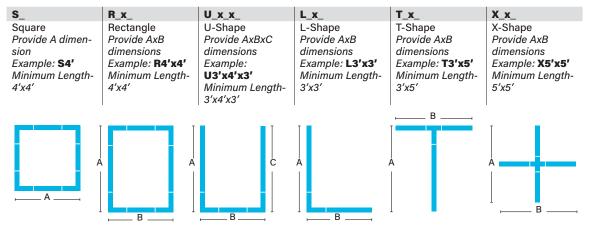
- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous Runs, 1/2" (12.7mm) to the overall length of the row to account for end caps For patterns, refer to Pattern section on next page



### Pattern



- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult factory
- Only for HE Lens



# Length or Pattern: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for MOD specification details, pricing, and lead-time information

Specify MOD for patterns, lengths or angles not shown above MOD **Hubs Connectors** 

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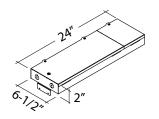
pg. 3

# Mounting

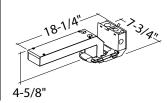
- Requires a remote mounted driver/battery per fixture specify remote type
- Total distance from remote box to fixture cannot exceed 10ft.
- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 350"
- End trims and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm)

ACG1R_	Aircraft Cable 1" (15/16") T-Bar
ACG9R_	Aircraft Cable 9/16" T-Bar
ACGSR_	Aircraft Cable Screw Slot T-Bar
ACJBR_	Aircraft Cable Junction Box
ACSTR_	Aircraft Cable Structure
AC5G_R_	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JBR_	Aircraft Cable 5" (127mm) Non-Power Canopy
SQG_R_	Aircraft Cable 5" (127mm) Square Canopy
SQJBR_	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount (only works with RB)
S	Surface Mount (only works with RB)

Remote Box (RB)



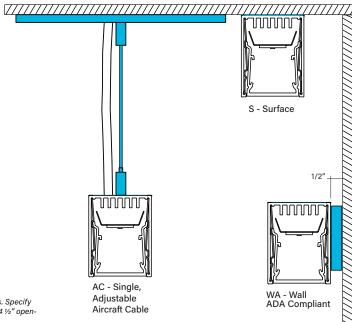
Remote Canopy (RC)



All EX12 fixtures require a remote driver. Specify Remote Box (RB) for all standard remote driver applications. Specify Remote Canopy (RC) for smaller spaces and hard ceilings. The Remote Canopy option fits in to a standard, 4 ½" opening for a canopy in a hard ceiling application. Total distance from remote box to fixture cannot exceed 10ft.

### non-power canopies

- Canopies and pendants 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
- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 10 lbs for a standard 4' fixture



### Voltage

Some EX12 configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

### Driver

- Requires a remote mounted driver per fixture
- Standard Driver Option = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options see Pinnacle Resource Guide

Some EX12 con	figurations will not accommodate all driver options;					
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					
EE2	eldoLED ECOdrive 1%, 0-10v Linear					
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic					
ES2	eldoLED SOLOdrive 0-10v, 0% Linear					
<b>DALI Drivers</b>						
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)					
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)					
OD1	Osram Optotronic 1%, DEXAL					
OD2	Osram Optotronic 1%, DALI 2 Channel					
<b>Lutron Drivers</b>						
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1					
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only					
<b>Alternate Driv</b>	ers					
PS1	Signify Advance Xitanium Step Dimming 50%/100%					

consult with factory

- Osram and Lutron Drivers have remote distance limitation of 10'. Consult factory for specific configurations
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult factory for specific configurations

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# How to specify Circuiting, Battery and Emergency



- Select fixture circuiting from options below
- Some EX12 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 EX12 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 will be remote mounted with driver.
- 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
- Battery not available for lengths under 4'
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6, 7' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No Battery
_ILL	lota 10w Integral Lithium, Self Testing
_IRH	lota 20w Remote
_PLL	Bodine 10w Integral Lithium, Self Testing
_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**

- Select emergency section type if required, indicate total QTY. Example 1E
- Combine battery and emergency section 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 section
_N	Night Light circuit section
_L	Life Safety circuit section NO THROUGH WIRE

# **Battery OR Emergency Ordering Examples**

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

# **Combination Section Ordering Examples**

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

Ordering Code: 1-1PL1E Ordering Code: M-2PL2E

pg. 5

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

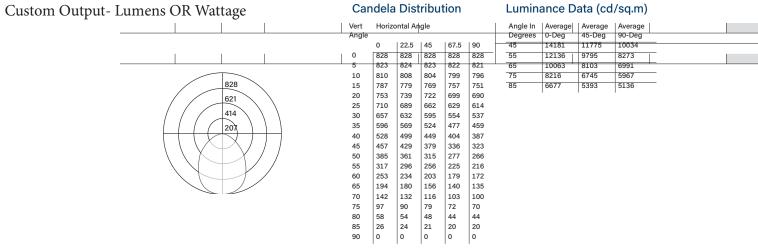
W	White (white cord/white canopy)
S	Metallic Silver (grey cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

# Controls

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

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### **Photometrics**



For all available IFS files, please visit our website at pinnacle-ltg.com, Photometry testing in accordance to IESNA-I M-79-08 at an NVI AP accredited testing laboratory. Testing conducted at 25°C ambient conditions

# **Applications & Certificates**

Construction: 6063-T5 Extruded aluminum housing. Highly reflective die-formed white painted reflector.

Shielding: Diffuse snap-in acrylic lens with matte finish, removable for mainte-

Mounting: Aircraft cable, wall and surface mount available. The 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 10 lbs for a standard 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. L70 = 124,900 hours and L90 = 37,200 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: Two lumen packages available. Standard and High (HO). 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≥19 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 EX configurations will not accommodate all voltage options; consult with factory.

Driver: Requires a remote mounted driver per fixture. Standard Driver option is Advance Xitanium 0-10V, 1% = PL2. 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 96°F/35°C. For more driver options, see Pinnacle Resource Guide. Some EX configurations will not accommodate all driver

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 EX configurations will not accommodate all circuiting options; consult with

Battery & Emergency: Battery will be remote mounted with driver. 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 white unless specified differently in the options section of the part number. Contact factory for additional custom color and finish options.

Controls: Consult factory.

Labels: UL and cUL Listed. Standard and HO lumen packages are approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 10 lbs for a standard 4' fixture.

### **Buy American Act Compliant**

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

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