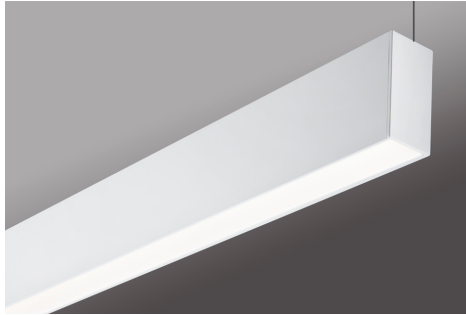


EDGE EX1B

1" Suspended Bidirectional Linear

Key Features

- 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 fixture weight is 12 lbs for a standard 4' fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: EX1B-HE-HE-830HO-830-26'-AC48G1-U-OL1-1-0-W

EX1B



DIRECT SHIELDING	INDIRECT SHIELDING	DIRECT CRI, CCT & OUTPUT ¹	INDIRECT CRI, CCT & OUTPUT ¹
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens P - Parabolic Louver <i>Shielding pg. 2</i>	HE - High Efficiency BW - Batwing Lens WHE - Asymmetric Lens HEA - Ascent Lens <i>Shielding pg. 2</i>	<u>27</u> - 2700K <u>30</u> - 3000K <u>35</u> - 3500K <u>40</u> - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i>	<u>27</u> - 2700K <u>30</u> - 3000K <u>35</u> - 3500K <u>40</u> - 4000K CL - Custom Lumens CW - Custom Watts <i>Lumen Output pg. 2</i>

LENGTH OR PATTERN ²	MOUNTING ³	VOLTAGE	DRIVER
<u> </u> - Individual Fixture <u> </u> - Continuous Row L - L Shape R - Rectangle S - Square U - U-Shape T - T-Shape X - X-Shape M - Mod Layout <i>Length and Pattern pg. 2-3</i>	AC - AC to Grid AC - AC to J Box AC - AC to Structure WA - Wall Mount AC5 - 5" Non-Power Canopy AC5 - 5" Non-Power Canopy SQ - 5" Square Canopy SQ - 5" Square Canopy <i>Mounting pg. 3</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	PL2 - Advance Xitanium (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) PS1 - Advance Xitanium (50%/100%) OL2 - Osram (1%, 0-10v) ND - Non-Dimming <i>Driver pg. 4</i>

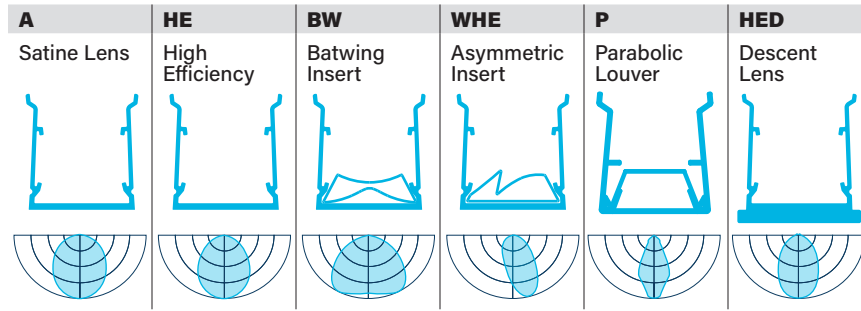
CIRCUITING	BATTERY & EMERGENCY ⁴	FINISH	CONTROLS
1 - Single Circuit 2 - Dual Circuit (direct/indirect) M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 4</i>	0 - None PLL - Bodine 10W (low profile) ILL - Iota 10w Integral E - Emergency Section N - Night Light Section L - Life Safety Section G - Bodine GTD <i>Battery and Emergency pg. 4</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

¹When 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. For Mod layouts Specify pattern shape and overall dimensions. Example: L6x4: L pattern that is 6'x4'. ³Specify AC length standard AC is 48"; Specify grid: G1=15/16", G9=9/16", GS=Screw Slot. Example: AC48G1 *Enter quantity for Battery and Emergency, Example 2PL.

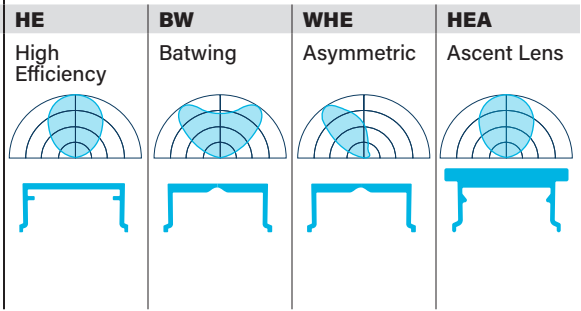
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Direct Shielding



Indirect Shielding



CRI, CCT & 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. CL835600)
CW _____ Specify CRI, CCT and desired wattage (i.e. CW9407)

Specify lumens between standard offering listed below. Lumens are specified per color temp
 Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Output	Watts per foot	Shielding		HE		BW		WHE		P		HED	
				A Satine Lens		High Efficiency		Batwing		Asymmetric		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

Direct 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

Indirect 80 CRI

	Color	Output	Watts per foot	Shielding		BW		WHE		HEA	
				HE High Efficiency		Batwing		Asymmetric		Ascent	
				Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW	Lumens/ft	LPW
830	3000K	Standard	4.5	456	101.3	449	99.8	268	59.6	447	99.3
830HO	3000K	High	8.6	834	97.0	831	96.6	495	57.6	826	96.0
835	3500K	Standard	4.5	469	104.2	462	102.7	276	61.3	460	102.2
835HO	3500K	High	8.6	858	99.8	854	99.3	509	59.2	850	98.8
840	4000K	Standard	4.5	478	106.2	471	104.7	281	62.4	467	103.8
840HO	4000K	High	8.6	875	101.7	871	101.3	519	60.3	866	100.7

Indirect 90 CRI

927	2700K	Standard	4.5	360	80.0	355	78.9	212	47.1	354	78.7
927HO	2700K	High	8.6	659	76.6	657	76.4	391	45.5	653	75.9
930	3000K	Standard	4.5	420	93.3	414	92.0	247	54.9	412	91.6
930HO	3000K	High	8.6	769	89.4	766	89.1	456	53.0	761	88.5
935	3500K	Standard	4.5	422	93.8	416	92.4	249	55.3	414	92.0
935HO	3500K	High	8.6	772	89.8	768	89.3	458	53.3	765	89.0
940	4000K	Standard	4.5	427	94.9	421	93.6	251	55.8	417	92.7
940HO	4000K	High	8.6	781	90.8	777	90.3	463	53.8	773	89.9

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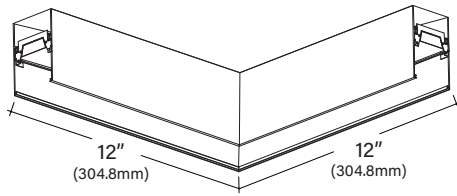


Length

- All individual units cannot be joined, end plates are factory installed and cannot be removed
- For Continuous runs, add 1/4" (6.4mm) for each end plate or 1/2" (12.7mm) to the overall length of the row
- For patterns, refer to Pattern section on next page

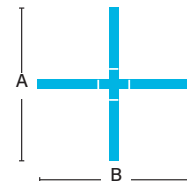
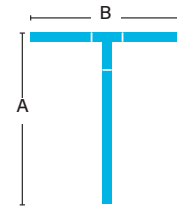
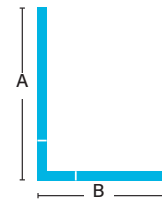
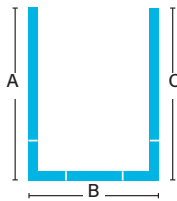
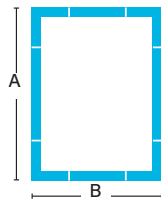
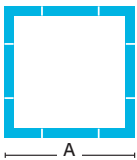
2	3	4	5	6	7	8	—
Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1'
24" (609.6mm)							
36" (914.4mm)							
48" (1219.2mm)							
60" (1524mm)							
72" (1828.8mm)							
84" (2133.6mm)							
96" (2438.4mm)							
Specify to the 1' >>>							

Pattern

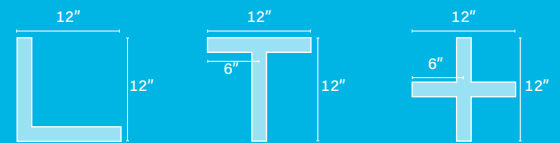


- Specify pattern shape and overall dimensions (includes corner dimensions)
- Refer to dimensions table below for available standard lengths
- All connectors are direct only
- 90 degree horizontal corners are 12"x12" (overall, outside dimension)
- Angles and shapes not shown require Mod Pattern; consult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

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_	M
Square Provide A dimension Example: S4' Minimum Length-4'x4'	Rectangle Provide Ax B dimensions Example: R4'x4' Minimum Length-4'x4'	U-Shape Provide Ax BxC dimensions Example: U3'x4'x3' Minimum Length-3'x4'x3'	L-Shape Provide Ax B dimensions Example: L3'x3' Minimum Length-3'x3'	T-Shape Provide Ax B dimensions Example: T3'x5' Minimum Length-3'x5'	X-Shape Provide Ax B dimensions Example: X5'x5' Minimum Length-5'x5'	Mod Layout For patterns or lengths not shown or standard



Horizontal Details: Every Connection is 12" x 12" in Overall Dimension

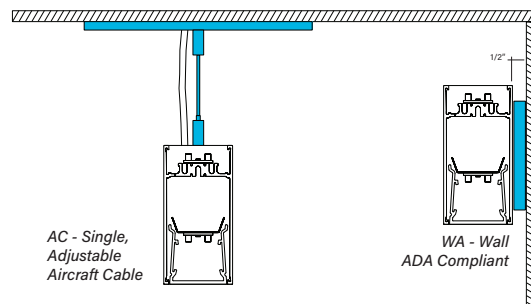


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard adjustable cable. Specify 48", 120", 240" or 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 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 12 lbs for a standard 4' fixture
- For a wall mounted fixture with an indirect asymmetric lens, light will be directed away from the wall as a standard

AC_G1	Aircraft Cable to 1" (15/16") T-Bar
AC_G9	Aircraft Cable to 9/16" T-Bar
AC_GS	Aircraft Cable to Screw Slot T-Bar
AC_JB	Aircraft Cable to Junction Box
AC_ST	Aircraft Cable to Structure
AC5_G	5" (127mm) Non-Power Canopy
AC5_JB	5" (127mm) Non-Power Canopy
SQ_G	5" (127mm) Square Canopy
SQ_JB	5" (127mm) Square Canopy
WA	Wall Mount (ADA Compliant, 1/2" off the wall)



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Voltage

- Some EX1B configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

Driver

- Standard Driver Option = PL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX1B configurations will not accommodate all driver options; consult with factory

PL2	Advance Xitanium 1%, 0-10v
OL4	Osram Optotronic 347v, 1%, 0-10v (requires 347v)
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
PS1	Advance Xitanium Step Dimming 50%/100%
OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
ND	Non-Dimming

How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
 - Some EX1B configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit
2	Dual Circuit (<i>direct/indirect</i>)
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 EX1B 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
- 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
_PLL	Bodine 10w Integral Lithium (<i>self testing</i>)
_ILL	Iota 10w Integral (<i>self testing</i>)

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
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$

Battery OR Emergency Ordering Examples

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

Combination Section Ordering Examples

- Single circuit, (1) 10w battery, (1) emergency section Ordering Code: 1-1PL1E
- Multi circuit, (2) 10w battery, (2) emergency sections Ordering Code: M-2PL2E
- 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

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

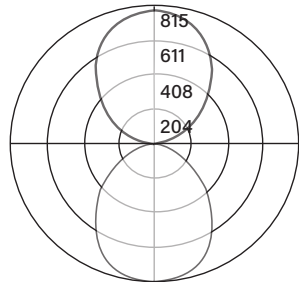
Controls

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

Photometrics

High Efficiency - High Efficiency

Test #	ITL86990
Catalog #	EX1B-HE-HE-840-840-4
Lumens	3474 Lm
Watts	35.6 W
Efficacy	98 LPW



Candela Distribution

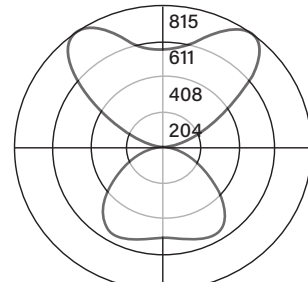
Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	815	815	815	815	815	815
5	811	810	809	807	807	807
15	774	763	752	737	730	730
25	697	673	637	598	584	584
35	581	548	492	439	419	419
45	442	408	348	301	284	284
55	302	275	230	197	185	185
65	181	165	139	119	114	114
75	88	81	68	61	59	59
85	20	19	17	17	18	18
95	22	23	25	28	28	28
105	96	97	96	95	94	94
115	195	193	191	186	183	183
125	314	310	306	298	296	296
135	445	439	433	426	422	422
145	573	562	558	550	547	547
155	673	664	664	657	653	653
165	739	735	737	733	731	731
175	770	770	770	770	770	770
180	774	774	774	774	774	774

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13452	10600	8647
55	11310	8635	6954
65	9231	7053	5808
75	7282	5673	4911
85	5029	4275	4526

Batwing - Batwing

Test #	ITL86987/87002
Catalog #	EX1B-BW-BW-840-840-4
Lumens	3255 Lm
Watts	38.9 W
Efficacy	84 LPW



Candela Distribution

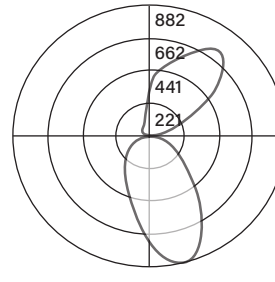
Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	445	445	445	445	445	445
5	443	447	451	452	453	453
15	424	432	447	463	470	470
25	387	397	436	477	494	494
35	334	348	400	459	484	484
45	270	284	335	388	409	409
55	202	210	248	282	293	293
65	135	138	159	176	182	182
75	73	73	81	87	89	89
85	22	20	21	21	21	21
95	14	20	19	15	13	13
105	63	104	119	95	87	87
115	131	216	285	244	227	227
125	211	313	472	461	441	441
135	294	375	575	646	650	650
145	369	417	571	683	714	714
155	430	448	527	608	639	639
165	471	475	499	525	535	535
175	491	491	493	495	496	496
180	493	493	493	493	493	493

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8387	10406	12705
55	7736	9497	11221
65	7017	8264	9459
75	6195	6874	7553
85	5545	5292	5292

Asymmetric - Asymmetric

Test #	ITL86988/87003
Catalog #	EX1B-WHE-WHE-840-840-4
Lumens	2655 lm
Watts	38.9 W
Efficacy	68 LPW



Candela Distribution

Vert Angle	Horizontal Angle	0	22.5	45	67.5	90
0	715	715	715	715	715	715
5	803	777	711	651	626	626
15	879	839	672	513	463	463
25	769	790	593	398	353	353
35	554	641	487	309	283	283
45	361	457	367	236	229	229
55	230	297	255	172	174	174
65	140	175	158	113	116	116
75	71	85	81	60	62	62
85	20	23	23	17	16	16
95	23	28	9	6	6	6
105	108	135	43	23	23	23
115	262	305	89	41	42	42
125	481	484	143	56	56	56
135	677	568	201	67	67	67
145	714	548	254	76	74	74
155	615	497	296	94	81	81
165	502	457	325	143	110	110
175	419	399	340	267	240	240
180	342	342	342	342	342	342

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11214	14196	11400
55	8808	11374	9765
65	7276	9095	8212
75	6026	7214	6874
85	5040	5797	5797



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 maintenance.

Mounting: Aircraft cable and wall mount available. Straight aircraft cable 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 12 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 = 120,200 hours and L90 = 35,900 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: 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: 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 103°F/40°C. For more driver

options, see Pinnacle Resource Guide. Some EX configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), dual circuit (2), 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 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, graphite, textured black 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 12 lbs for a standard 4' fixture.

Buy American Act Compliant

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