

EDGE EX1D

1" Suspended Direct Linear

Key Features

- Co-extruded 1.5" lens delivers smooth, uniform lines of light
- Multiple shielding and lensing options for controlled light distributions
- Integral driver
- Pattern flexibility through illuminated connectors or non-illuminated hubs
- Complete family available in suspended, surface, wall, and recessed applications
- Product transparency with third-party verified Living Building Challenge (LBC) Declared



Example Part #: EX1D-HE-N-830HO-26'-AC48G1-U-FSD-1-0-W

EX1D - **N** - DIRECT SHIELDING - INDIRECT SHIELDING - CRI, CCT & OUTPUT - LENGTH OR PATTERN - MOUNTING - VOLTAGE - DRIVER - CIRCUITING - BATTERY & EMERGENCY - FINISH

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DIRECT SHIELDING	INDIRECT SHIELDING	SOURCE ¹	LENGTH OR PATTERN ²
A - Satine Lens HE - High Efficiency Lens BW - Batwing Insert WHE - Asymmetric Insert HED - Descent Lens <i>Shielding pg. 2</i>	N - None <i>Shielding pg. 2</i>	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K CL - Custom Lumens CW - Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	--- - Individual Fixture --- - Continuous Row <i>Illuminated Connectors</i> S - Square R - Rectangle U - U-Shape L - L-Shape T - T-Shape X - X-Shape <i>Non-Illuminated Hubs</i> HS - Square HR - Rectangle HTR - Triangle HH - Hexagon HU - U-Shape HL - L-Shape HT - T-Shape HX - X-Shape HY - Y-Shape MOD - Mod options available <i>Length and Pattern pg. 3</i>

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MOUNTING ³	VOLTAGE	DRIVER	CIRCUITING
AC - AC to Grid AC - AC to J Box AC - AC to Structure WA - Wall Mount S - Surface Mount AC5 - 5" Non-Power Canopy AC5 - 5" Non-Power Canopy SQ - 5" Square Canopy SQ - 5" Square Canopy <i>Mounting pg. 4</i>	U - Universal (120 thru 277V) 1 - 120V 2 - 277V 3 - 347V <i>Voltage pg. 4</i>	FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED (1%, 0-10v) OL4 - eldoLED 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%) MOD - Mod options available <i>Driver pg. 4</i>	1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) <i>Circuiting pg. 5</i>

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BATTERY & EMERGENCY ⁴	FINISH	FIXTURE OPTIONS ⁵	CONTROLS
0 - None FSB - Factory Select Battery FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD PLL - Bodine 10W <i>Battery and Emergency pg. 5</i>	W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	BA - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 5</i>	MOD - Mod options available <i>Controls pg. 5</i>





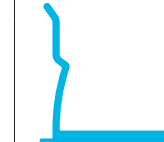


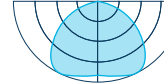


¹When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI. The ending _ are for specifying output, example **HO** - High Output. See output charts for more information. ²Individual fixtures come in 2', 3', 4', 5', 6', 7', & 8' lengths. Continuous row come in 1' increments. Patterns can use either an illuminated connector or a non-illuminated hub (**H**) see page 3 for more information and availability. For patterns 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 2PLL. ⁴Compliance is configuration dependent; consult factory for confirmation.

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Shielding

DIRECT

A	HE	BW	WHE	HED	INDIRECT
Satine Lens	High Efficiency Lens	Batwing Insert	Asymmetric Insert	Descent Lens	N
					
					

Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory.
- 90 CRI = R9≥50

Custom Output - Lumens OR Wattage

CL _____	Specify CRI, CCT and desired lumens (i.e. CL835600)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify lumens between standard offering listed below. Lumens are specified per color temp

Direct 80 CRI

	Color	Lumens per foot	Shielding A		HE		BW		WHE		P		HED	
			Satine Lens LPW	Watts/ft	High Efficiency LPW	Watts/ft	Batwing LPW	Watts/ft	Asymmetric LPW	Watts/ft	Louver LPW	Watts/ft	Descent LPW	Watts/ft
830	3000K	500	92	5.4	116	4.3	84	5.9	101	4.9	73	6.9	102	4.9
830HO	3000K	750	94	8.0	115	6.5	86	8.7	103	7.3	73	10.3	101	7.4
830VHO	3000K	1000	93	10.7	118	8.5	84	11.9	105	9.5	70	14.3	103	9.7
835	3500K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
835HO	3500K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
835VHO	3500K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4
840	4000K	500	95	5.2	119	4.2	87	5.8	105	4.8	73	6.8	103	4.9
840HO	4000K	750	97	7.7	119	6.3	88	8.5	107	7.0	75	10.0	105	7.2
840VHO	4000K	1000	97	10.4	122	8.2	87	11.5	107	9.3	73	13.8	106	9.4

Direct 90 CRI

927	2700K	500	74	6.7	96	5.2	70	7.2	84	6.0	60	8.4	82	6.1
927HO	2700K	750	77	9.8	97	7.7	70	10.7	86	8.8	58	12.9	84	9.0
927VHO	2700K	1000	74	13.5	97	10.3	68	14.6	84	12.0	N/A		82	12.2
930	3000K	500	81	6.1	102	4.9	74	6.7	91	5.5	65	7.7	89	5.6
930HO	3000K	750	83	9.0	104	7.2	77	9.8	93	8.1	64	11.8	91	8.2
930VHO	3000K	1000	81	12.3	106	9.4	74	13.5	93	10.8	63	16.0	91	11.0
935	3500K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
935HO	3500K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
935VHO	3500K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1
940	4000K	500	81	6.2	102	4.9	74	6.8	91	5.5	65	7.7	89	5.6
940HO	4000K	750	83	9.1	104	7.2	76	9.8	93	8.1	63	11.8	91	8.3
940VHO	4000K	1000	81	12.4	106	9.5	74	13.6	92	10.8	62	16.1	90	11.1

Direct Source: 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

MOD TIR Optics



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

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' >>>

Patterns



Pattern - Illuminated Connectors

- Specify pattern shape and dimensions per leg(s)
- All illuminated connectors are direct only
- Length specified will reflect overall pattern dimensions
- Angles and shapes not shown require MOD Pattern; consult factory
- For MOD patterns factory drawings and sign off required

S_	R_x_	U_x_x_	L_x_	T_x_	X_x_
Square Provide A dimension Example: S4'	Rectangle Provide AxB dimensions Example: R6'x4'	U-Shape Provide AxBxC dimensions Example: U6'x4'x6'	L-Shape Provide AxB dimensions Example: L4'x3'	T-Shape Provide AxBxC dimensions Example: T6'x8'	X-Shape Provide AxBxCxD dimensions Example: X6'x6'

Pattern - Non Illuminated Hubs

- Specify pattern shape and dimensions per leg(s)
- Length specified will not reflect overall pattern dimensions
- Patterns cannot be used with S mounting
- Angles and shapes not shown require MOD Pattern; consult factory
- For MOD patterns factory drawings and sign off required
- Got to page 6 to sketch multi Hub layout

HS_	HR_x_	HTR_	HH_	HU_x_x_	HL_x_	HY_x_	HT_x_	HX_x_
Square Hub Provide A dimension Example: HS4	Rectangle Hub Provide AxB dimensions Example: HR4x2	Triangle Hub Provide A dimension Example: HTR4	Hexagon Hub Provide A dimension Example: HH4	U-Shape Hub Provide AxBxC dimensions Example: HU3x4x3	L-Shape Hub Provide AxB dimensions Example: HL3x3	Y-Shape Hub Provide AxBxC dimensions Example: HY3x3x3	T-Shape Hub Provide AxBxC dimensions Example: HT3x5	X-Shape Hub Provide AxBxCxD dimensions Example: X3x3

Illuminated Connector Details			Non-illuminated Hub Details					
			H90 90° Hub	HTR Triangle Hub	HH Hexagon Hub	HY Y-Shape Hub	HT T-Shape Hub	HX X-Shape Hub

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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

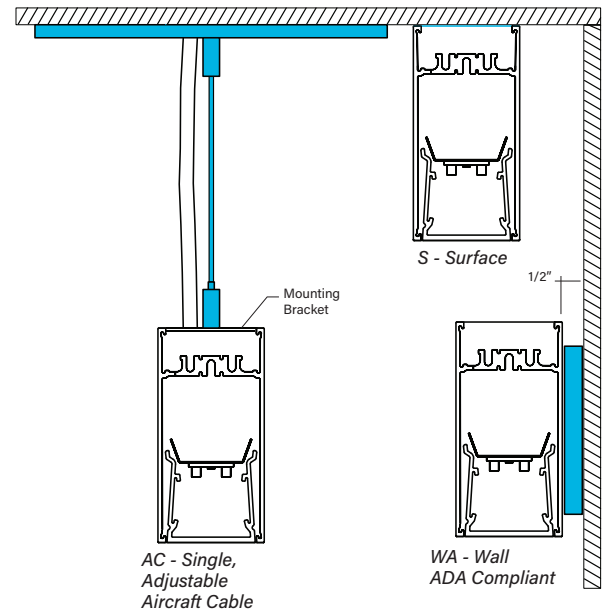
MOD	Specify MOD for patterns, lengths or angles not shown above
	45- 180 degree angles
	Single-piece welded housings up to 4' x 4'

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

AC_G1	Aircraft Cable 1" (15/16") T-Bar
AC_G9	Aircraft Cable 9/16" T-Bar
AC_GS	Aircraft Cable Screw Slot T-Bar
AC_JB	Aircraft Cable Junction Box
AC_ST	Aircraft Cable Structure
AC5_G	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQ_G	Aircraft Cable 5" (127mm) Square Canopy
SQ_JB	Aircraft Cable 5" (127mm) Square Canopy
WA	Wall Mount
S	Surface Mount

- Canopies and pendants match fixture finish, power cords are white 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
- Top Cover is optional on AC mounting fixtures, Top Cover is standard on others



Voltage

- Some EX1D 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 = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX1D configurations will not accommodate all driver options; consult with factory

0-10V Drivers

FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v option
OL2	eldoLED Optotronic, 1%, 0-10v
OL4	eldoLED 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 0.1%, 0-10v, Logarithmic
ES2	eldoLED SOLOdrive 0.1%, 0-10v, Linear

DALI Drivers

EE3	eldoLED ECOdrive 1%, DALI 2, Logarithmic, DT6
ES3	eldoLED SOLOdrive 0.1%, DALI 2, Logarithmic, DT6

Lutron Drivers

LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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Alternate Drivers

PS1	Advance Xitanium Step Dimming 50%/100%
EH1	ERP 1%, Line Voltage and ELV, requires 120v

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How to specify Circuiting, Battery and Emergency

- 1 Select fixture circuiting from options below
- Some EX1D 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

- 2 + 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 EX1D configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

0	No battery or specific emergency section required
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Battery

- Select battery section type if required, indicate total QTY. *Example 2FSB*
- 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
_FSB	Factory Select Battery 10w, Integral Lithium
_FSBST	Factory Select Battery 10w, Integral Lithium, Self Testing
_PLL	Bodine 10w Integral Lithium, Self Testing
_ILL	Iota 10w Integral Lithium, Self Testing

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- $92.3 \text{ (LPW)} \times 10 \text{ (watts)} = 923 \text{ battery lumen output}$

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, Emergency Control Device, UNV
_GI	Iota ETS-DR, Emergency Control Device, UNV
_GB	Bodine GTD, Emergency Control Device, 120v or 277v
_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: 1-1FSB |
| • Emergency only, 10w Integral Battery | Ordering Code: E-1PLL |
| • Single circuit, GTD required | Ordering Code: 1-1GB |

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>(white 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>

Fixture Options

- Domestic content option - compliance is configuration dependent; consult factory for conformation

BA	Buy America(n) Act and/or Build America Buy America Compliant
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Controls

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

Controls: MOD Options

- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Ordering Code	Required Driver
Lutron Athena Sensor	AWNS	OD1, PR1, OL5, PL5
Lutron Athena Connected	AWNRR	OD1, PR1, OL5, PL5

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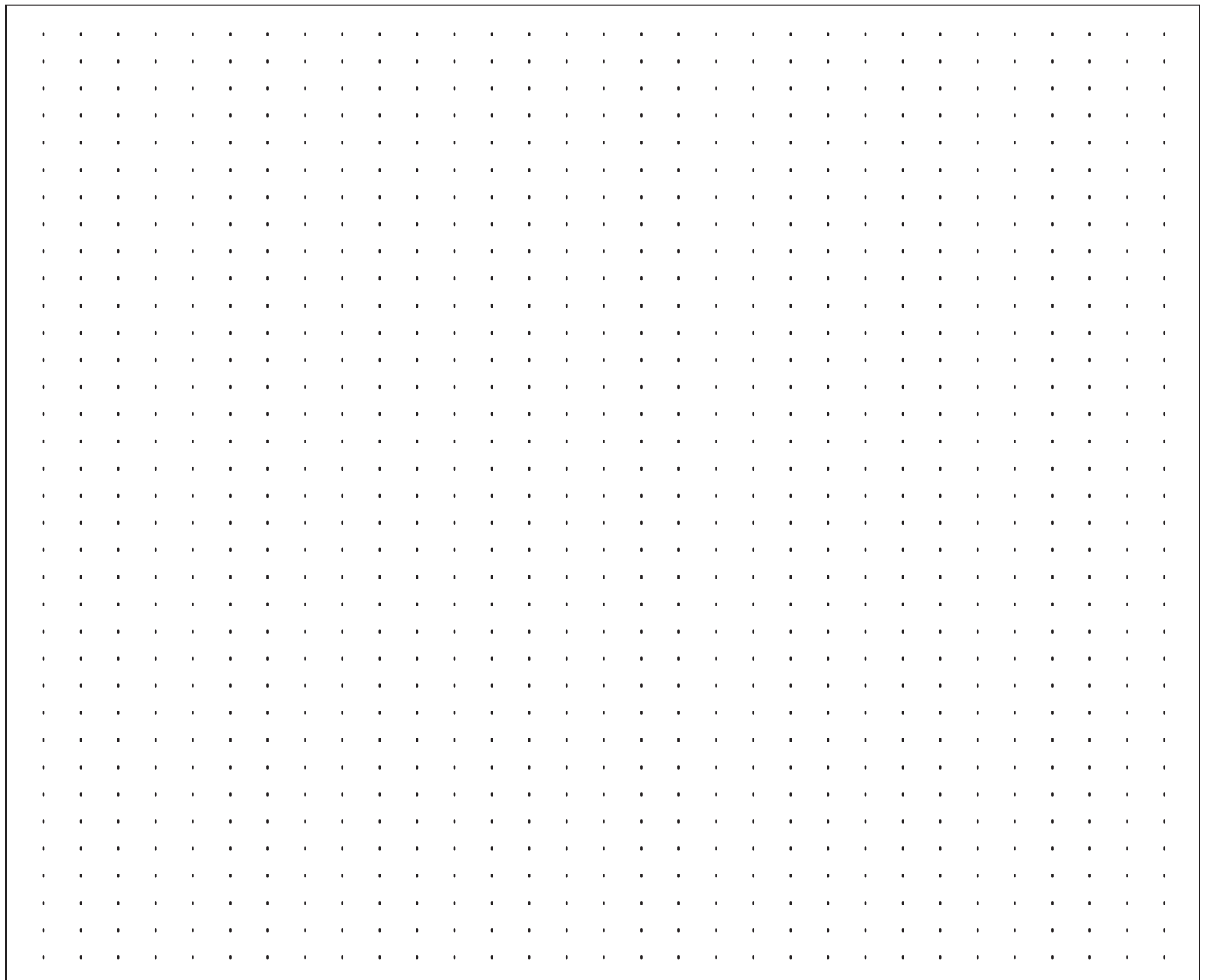
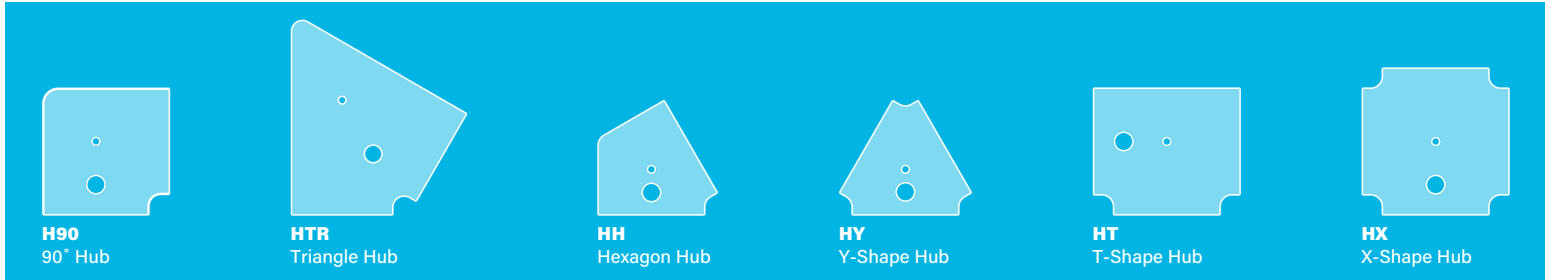
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Multi Hub Layout

- Use the below to sketch your desired pattern. Available hubs are listed in the legend. Label your pattern components according to legend to simplify specification.
- Label the linear sections with fixture/run length.
- Cannot use connector with another connector.
- All lengths are to the foot only.
- Pinnacle will create factory drawings based off sketch to confirm dimensions and layout.

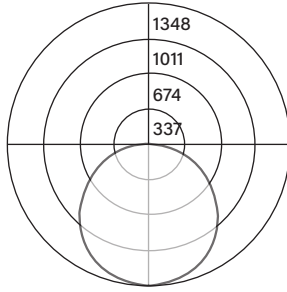




Photometrics

High Efficiency Lens

Test #	KPL2015-57
Catalog #	EX1D-A-840VHO-4
Lumens	3819
Watts	39.7
Efficacy	96 LPW



Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1337	1337	1337	1337	1337
5	1325	1337	1328	1330	1329
10	1308	1320	1310	1312	1311
15	1279	1290	1280	1281	1280
20	1239	1249	1240	1240	1239
25	1189	1197	1189	1186	1186
30	1128	1136	1128	1123	1122
35	1059	1068	1057	1053	1052
40	983	986	978	972	970
45	899	899	892	883	881
50	806	805	796	789	769
55	704	705	696	687	685
60	599	597	590	580	581
65	491	488	477	470	470
70	375	373	365	359	357
75	258	258	250	247	245
80	153	150	146	143	145
85	66	64	61	59	58
90	0	0	0	0	0

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28469	28277	27921
55	27516	27172	26738
65	26044	25293	24939
75	22355	21618	21227
85	17058	15632	14873

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP or IAS 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 maintenance.

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. 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. TM-21-21 Lifetime Rating L70 = >72,000 hours, L90 = 65,700 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Not all lumen packages available. 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≥50.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify PL4 or OL4 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Factory Select Driver 0-10V, 1% = FSD. 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 115°F/46°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options.

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 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. Contact factory for additional custom color and finish options.

Controls: Mod options available, consult with factory.

Buy America Act (BAA) and Build America, Buy America Act (BABA) Compliance: BAA and/or BABA compliance options are available to support federally funded projects requiring domestic content. Availability depends on configuration; Compliance is configuration-dependent; consult factory for confirmation.

Labels: UL and cUL 1598 listed. Standard, HO and VHO lumen packages are approved for dry/damp location unless otherwise noted.

Sustainability: All EDGE models are Living Building Challenge (LBC) Declared with third-party verification. The Declare Label from ILFI provides transparent insights into materials, sourcing, and environmental impact, promoting informed, sustainable choices that benefit both people and the planet. View the label [here](#).

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

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