

# TESA

Suspended Linear

## Key Features

- 20 gauge steel housing
- Highly reflective die-formed white painted steel reflector
- 14 gauge steel end caps are fastened with concealed hardware
- 5-year limited warranty that covers LED, driver and fixture
- UL and cUL Listed
- Approved for dry/damp location
- Room-Side Maintenance for LED system



QUICKSHIP



Example Part #: T4A-835VHO-16'-AC48G1-U-FSD-1-0-W

T4A									
HOUSING	CRI, CCT & OUTPUT	LENGTH	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS

<b>T4A</b>	-----	-----	-----
<b>HOUSING</b>	<b>CRI, CCT &amp; OUTPUT</b> <i>QS</i> <sup>1</sup>	<b>LENGTH</b> <sup>2</sup>	<b>MOUNTING</b>
<b>T4A</b> - Tesa with Satine lens <i>QS</i> (10% Direct / 90% Indirect)	<b>_27_</b> - 2700K <b>_30_</b> - 3000K <b>_35_</b> - 3500K <b>_40_</b> - 4000K <b>CL</b> - Custom Lumens <b>CW</b> - Custom Watts <i>Lumen Output pg. 2</i>  Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output	<b>_</b> - Individual Fixture <i>QS</i> <b>_</b> - Continuous Row <i>QS</i> <i>Length and Pattern pg. 2</i>	<b>AC_G</b> - AC to Grid <i>QS</i> <b>AC_JB</b> - AC to J Box <i>QS</i> <b>AC_ST</b> - AC to Structure <i>QS</i> <b>AC5_G</b> - 5" Non-Power Canopy <b>AC5_JB</b> - 5" Non-Power Canopy <b>SQ_G</b> - 5" Square Canopy <b>SQ_JB</b> - 5" Square Canopy <i>Mounting pg. 3</i>
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<b>VOLTAGE</b>	<b>DRIVER</b>	<b>CIRCUITING</b>	<b>BATTERY &amp; EMERGENCY</b>
<b>U</b> - Universal <i>QS</i> (120 thru 277V) <b>1</b> - 120V <i>QS</i> <b>2</b> - 277V <i>QS</i> <b>3</b> - 347V <i>Voltage pg. 3</i>	<b>FSD</b> - Factory Select Driver (1%, 0-10v) <i>QS</i> <b>PL2</b> - Advance Xitanium (1%, 0-10v) <b>OL2</b> - eldoLED Optotronic (1%, 0-10v) <b>OL4</b> - eldoLED Optotronic 347v (1%, 0-10v) <b>LH1</b> - Lutron Hi-lume (1%, EcoSystem) <i>Driver pg. 3</i>	<b>1</b> - Single Circuit <i>QS</i> <b>M</b> - Multi Circuit <b>E</b> - Emergency (entire fixture) <i>QS</i> <b>N</b> - Night Light (entire fixture) <i>QS</i> <b>L</b> - Life Safety (entire fixture) <i>Circuiting pg. 3</i>	<b>0</b> - No Battery <i>QS</i> <b>_PLL</b> - Bodine 10w Integral Lithium <i>QS</i> <i>Battery and Emergency pg. 3</i>
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<b>FINISH</b>	<b>FIXTURE OPTIONS</b> <sup>3,4</sup>	<b>CONTROLS</b>	
<b>W</b> - White <i>QS</i> <b>S</b> - Metallic Silver <b>BL</b> - Textured Black <b>BR</b> - Bronze <b>GR</b> - Graphite <b>CC</b> - Custom Color <i>Finish pg. 3</i>	<b>QS</b> - QuickShip <i>QS</i> <b>DSP</b> - Customer Supplied Battery/Driver/ Sensor <b>BA</b> - Buy America(n) Act and/or Build America Buy America Compliant <i>Fixture Options pg. 4</i>	<b>MOD</b> - Mod options available <i>Controls pg. 4</i>	

<sup>1</sup>For Quickship CRI, CCT & Output see chart on page 4 <sup>2</sup>Individual fixtures come in 4' and 8' lengths. Specify continuous rows in 4' increments. <sup>3</sup>QS must be used in fixture options section of part number to qualify.  
<sup>4</sup>Compliance is configuration dependent; consult factory for confirmation.

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## CRI, CCT & 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

<b>CL</b> _____	Specify CRI, CCT and desired lumens (i.e. CL835500)	Specify lumens between standard offering listed below. Lumens are specified per color temp
<b>CW</b> _____	Specify CRI, CCT and desired wattage (i.e. CW9407)	Specify watts between standard offering listed below

### 80 CRI

	Color	Lumens per foot	Shielding <sup>1</sup>	
			A Satine LPW	Watts/ft
<b>830LO</b>	3000K	500	120	4.2
<b>830MO</b>	3000K	750	126	5.9
<b>830HO</b>	3000K	1000	123	8.2
<b>830VHO</b>	3000K	1250	119	10.5
<b>835LO</b>	3500K	500	122	4.1
<b>835MO</b>	3500K	750	129	5.8
<b>835HO</b>	3500K	1000	125	8.0
<b>835VHO</b>	3500K	1250	122	10.3
<b>840LO</b>	4000K	500	126	4.0
<b>840MO</b>	4000K	750	127	5.9
<b>840HO</b>	4000K	1000	129	7.7
<b>840VHO</b>	4000K	1250	126	9.9

### 90 CRI

<b>927LO</b>	2700K	500	96	5.2
<b>927MO</b>	2700K	750	97	7.7
<b>927HO</b>	2700K	1000	94	10.6
<b>927VHO</b>	2700K	1250	90	13.8
<b>930LO</b>	3000K	500	104	4.8
<b>930MO</b>	3000K	750	105	7.1
<b>930HO</b>	3000K	1000	102	9.8
<b>930VHO</b>	3000K	1250	98	12.7
<b>935LO</b>	3500K	500	107	4.7
<b>935MO</b>	3500K	750	112	6.7
<b>935HO</b>	3500K	1000	108	9.2
<b>935VHO</b>	3500K	1250	105	11.9
<b>940LO</b>	4000K	500	107	4.7
<b>940MO</b>	4000K	750	112	6.7
<b>940HO</b>	4000K	1000	108	9.2
<b>940VHO</b>	4000K	1250	105	11.9

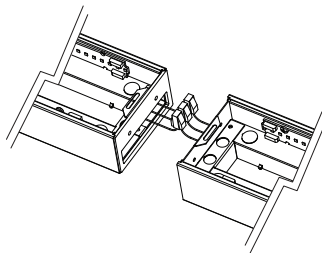
## Length

- All individual units cannot be joined, end trims are factory installed and cannot be removed
- Add 1/16" for each end cap or 1/8" to the overall length of the row
- Choose fixture length for Individual or Continuous Row length

<b>4</b>	<b>8</b>	—
Individual Fixture	Individual Fixture	Continuous Run
48" (1219.2mm)		Specify nominal overall row length to the 4'
	96" (2438.4mm)	

Specify in 4' increments

## Connection Detail



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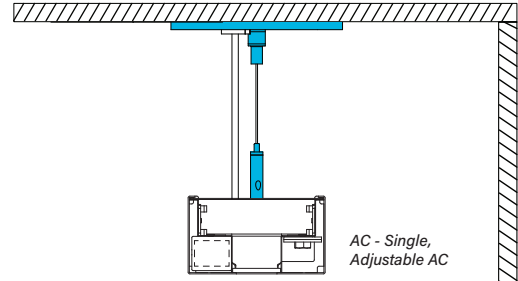
## Mounting

- Specify cable length in ordering code (AC48G1)
- Standard 48" adjustable cable. Specify up to 350"
- Adjustable aircraft cable mounts on 4'-0" (1219.2mm) and 8'-0" (3438.4mm) centers
- End trims and power cord attached at factory
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power

### canopies

- Canopies, hubs, 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 15 lbs. per 4' fixture

<b>AC_G1</b>	1" (15/16") T-Bar
<b>AC_G9</b>	9/16" T-Bar
<b>AC_GS</b>	Slotted T-Bar <i>Works with screw slot and bolt slot grid ceiling types</i>
<b>AC_JB</b>	Junction Box
<b>AC_ST</b>	Structure
<b>AC5_G</b>	5" (127mm) Non-Power Canopy <i>Replaces standard 2" canopy</i>
<b>AC5_JB</b>	5" (127mm) Non-Power Canopy <i>Replaces standard 2" canopy</i>
<b>SQ_G</b>	5" (127mm) Square Canopy <i>Replaces round canopies with 5" square canopies</i>
<b>SQ_JB</b>	5" (127mm) Square Canopy <i>Replaces round canopies with 5" square canopies</i>



## Voltage

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

<b>U</b>	Universal (120-277)
<b>1</b>	120 volt
<b>2</b>	277 volt
<b>3</b>	347 volt

## Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- Some Tesa configurations will not accommodate all driver options; consult with factory

### 0-10V Drivers

<b>FSD</b>	Factory Select Driver (1%, 0-10v)
<b>PL2</b>	Signify Advance Xitanium 1%, 0-10v
<b>PL4</b>	Advance Xitanium 347v 1%, 0-10v, requires 347v
<b>OL2</b>	eldoLED Optotronic, 1%, 0-10v
<b>OL4</b>	eldoLED Optotronic 347v, 1% 0-10v, requires 347v option

### DALI Drivers

<b>OD1</b>	eldoLED Optotronic 1%, DEXAL
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### Lutron Drivers

<b>LH1</b>	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
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## Circuiting

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

<b>1</b>	Single Circuit
<b>M</b>	Multi Circuit
<b>E</b>	Emergency Circuit only
<b>N</b>	Night Light Circuit only

## Battery

- Select battery section type if required, indicate total QTY. *Example 1PLL*
- 90 minute battery runtime; test button is remote
- Entire fixture is on battery for 4' lengths

- Half of fixture is on battery for 8' housing lengths
- Battery requires additional power drop

<b>0</b>	No Battery
<b>_PLL</b>	Bodine 10w Integral Lithium, Self Testing

## 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

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

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## Fixture Options

- Additional options to enhance the fixture and finish of the product

<b>QS</b>	Quick Ship
<b>DSP</b>	Customer Supplied Battery/Driver/Sensor

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

<b>BA</b>	Buy America(n) Act and/or Build America Buy America Compliant
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### Quick Ship

Shielding	CRI, CCT & Output	Mounting	Voltage	Driver	Circuiting	Battery	Finish	
10-Day								
<b>A</b>	80 CRI, all color temperatures, all lumen packages <i>See pg 2</i>	<b>AC48G_</b> <b>AC48JB</b> <b>AC48ST</b>	(M)AC to Grid (M)AC to J-BOX (M)AC to Structure	<b>U</b> Universal (120-277) <b>1</b> 120V <b>2</b> 277V	<b>FSD</b> Factory Select Driver <i>(1%, 0-10v)</i>	<b>1</b> Single Circuit <b>E</b> Emergency <b>N</b> Night Light	<b>0</b> None <b>_PLL</b> Bodine 10w, Lithium	<b>W</b> White <b>S</b> Silver

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Consult factory for larger projects.

## Controls

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

### Controls: MOD Options

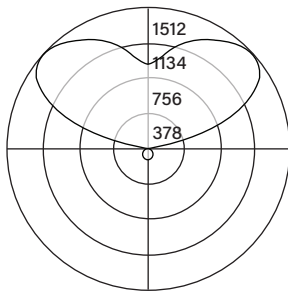
- Specify **MOD** in the part number for any of the below options
- Control** Options may require specific driver. Refer to the chart below
- Consult factory for **MOD** specification details, pricing, and lead-time information

<b>MOD</b>	Lutron Athena Connected	Ordering Code AWNRR	Required Driver OD1, PR1, OL5, PL5
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## Photometrics

### Satine Lens

Test #	KPL2015-44
Catalog #	T4A-840VHO-4
Lumens	5024 Lumens
Watts	40.1W
Efficacy	125 LPW



### Candela Distribution

Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	131	131	131	131	131
5	130	131	130	130	130
15	125	126	126	125	125
25	116	117	116	116	115
35	103	104	103	103	103
45	88	87	87	87	87
55	69	69	69	68	69
65	48	48	48	48	48
75	26	27	27	27	27
85	8	9	9	9	8
90	5	6	5	4	3
95	37	61	75	70	65
105	159	303	392	413	405
115	336	646	962	1106	1173
125	510	797	1169	1380	1459
135	635	860	1156	1356	1434
145	731	890	1118	1278	1331
155	799	897	1050	1166	1200
165	843	884	953	1020	1037
175	864	870	871	881	879
180	865	865	865	865	865

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1148	1142	1135
55	1116	1112	1110
65	1061	1058	1051
75	939	970	963
85	858	940	867

For all available IES files, please visit our website at [pinnacle-ltg.com](http://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.



## Approvals & Certifications

**Construction:** One piece die-formed 20 gauge steel housing in a 4" (101.6mm) by 2-1/4" (57.7mm) profile Standard 4'-0" (1219.2mm) and 8'-0" (3438.4mm) fixtures can be joined to create continuous runs. Standard high reflectance die-formed white painted aluminum.

**Shielding:** White satine lens with matte finish. Clear dust guard is standard with fixture.

**Mounting:** Adjustable aircraft cable mounts on 4'-0" (1219.2mm) and 8'-0" (3438.4mm) centers. Available in single or dual aircraft cable. Refer to installation instructions for appropriate ceiling detail.

**LED:** 25°C test environment. Lumen output/wattage has a margin of +/- 5%. 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. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

**CRI, CCT & Lumen Output:** Four lumen packages available. Standard and Low (LO), Medium (MO), 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 OL4 in Driver section when 347 volt (3) is selected. Some Tesa 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 35% Direct: -20°F/-30°C to 106°F/41°C. Ambient operating range 75% Direct: -20°F/-30°C to 124°F/51°C. Ambient operating range 100% Direct: -20°F/-30°C to 122°F/50°C. For more driver options, see Pinnacle Resource Guide. Some Tesa configurations will not accommodate all driver options.

**Circuiting:** Select from single circuit (1), Multi circuit (M), Emergency circuit (E), Night Light circuit (N) or Life Safety (L). 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 Tesa 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 integral 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.

**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. Approved for dry/damp location unless otherwise noted.

**Fixture Weight:** Maximum fixture weight is 15 lbs (per 4' fixture).

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