

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
- Maximum fixture weight is 15 lbs per standard 4' fixture
- Room-Side Maintenance for LED system
- Buy American Act compliant



Example Part #: T4A-835VHO-16'-AC48G1-U-OL2-1-0-W

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

| | | | |
|---|--|---|---|
| T4A | ----- | ----- | ----- |
| HOUSING | CRI, CCT & OUTPUT <i>QS</i> ¹ | LENGTH ² | MOUNTING |
| T4A - Tesa with Satine lens <i>QS</i> <i>(10% Direct / 90% Indirect)</i> | _27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL ----- - Custom Lumens CW ----- - Custom Watts <i>Lumen Output pg. 2</i> <i>Example: 830HO is 8 = 80 CRI; 30 = 3000K;</i> <i>HO = High Output; Blank = Standard Output</i> | _ - Individual Fixture <i>QS</i> _ - Continuous Row <i>QS</i> <i>Length and Pattern pg. 2</i> | AC_G - AC to Grid <i>QS</i> AC_JB - AC to J Box <i>QS</i> AC_ST - AC to Structure <i>QS</i> AC5_G - 5" Non-Power Canopy AC5_JB - 5" Non-Power Canopy SQ_G - 5" Square Canopy SQ_JB - 5" Square Canopy <i>Mounting pg. 3</i> |
| ----- | - | --- | - |
| VOLTAGE | DRIVER | CIRCUITING | BATTERY & EMERGENCY ³ |
| U - Universal <i>QS</i> <i>(120 thru 277V)</i> 1 - 120V <i>QS</i> 2 - 277V <i>QS</i> 3 - 347V <i>Voltage pg. 3</i> | PL2 - Advance Xitanium (1%, 0-10v) <i>QS</i> OL4 - Osram 347v (1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <i>QS</i> OL2 - Osram (1%, 0-10v) <i>QS</i> ND - Non-Dimming <i>QS</i> <i>Driver pg. 3</i> | 1 - Single Circuit <i>QS</i> M - Multi Circuit E - Emergency (entire fixture) <i>QS</i> N - Night Light (entire fixture) <i>QS</i> L - Life Safety (entire fixture) <i>Circuiting pg. 3</i> | 0 - No Battery <i>QS</i> PR - Bodine 10W (remote) PRH - Bodine 20W (remote) IR - Iota 10W (remote) <i>QS</i> IHR - Iota 20W (remote) ILL - Iota 10w Integral PLL - Bodine 10w Integral Lithium <i>Battery and Emergency pg. 3</i> |
| --- | -- | | |
| FINISH | FIXTURE OPTIONS ⁴ | | |
| W - White <i>QS</i> S - Metallic Silver <i>QS</i> BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 4</i> | QS - QuickShip <i>QS</i> <i>Fixture Options pg. 4</i> | | |

¹For Quickship CRI, CCT & Output see chart on page 4 ²Individual fixtures come in 4' and 8' lengths. Specify continous rows in 4' increments. ³Remote Battery must be installed within 16' of driver. ⁴QS must be used in fixture options section of part number to qualify.

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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. CL835500)

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

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

Specify watts between standard offering listed below

80 CRI

| | Color | Lumens per foot | Shielding ¹ | |
|---------------|-------|--------------------|------------------------|----------|
| | | | A Satine LPW | Watts/ft |
| 830LO | 3000K | 400 | 100.6 | 4.0 |
| 830MO | 3000K | 750 | 106.0 | 7.1 |
| 830HO | 3000K | 1000 | 107.2 | 9.3 |
| 830VHO | 3000K | 1250 | 106.6 | 11.7 |
| 835LO | 3500K | 400 | 105.3 | 3.8 |
| 835MO | 3500K | 750 | 107.1 | 7.0 |
| 835HO | 3500K | 1000 | 111.1 | 9.0 |
| 835VHO | 3500K | 1250 | 108.7 | 11.5 |
| 840LO | 4000K | 400 | 111.1 | 3.6 |
| 840MO | 4000K | 750 | 108.7 | 6.9 |
| 840HO | 4000K | 1000 | 111.1 | 9.0 |
| 840VHO | 4000K | 1250 | 111.6 | 11.2 |

90 CRI

| | | | | |
|---------------|-------|------|------|------|
| 927LO | 2700K | 400 | 78.8 | 5.1 |
| 927MO | 2700K | 750 | 85.2 | 8.8 |
| 927HO | 2700K | 1000 | 83.9 | 11.9 |
| 927VHO | 2700K | 1250 | 80.1 | 15.6 |
| 930LO | 3000K | 400 | 83.3 | 4.8 |
| 930MO | 3000K | 750 | 90.4 | 8.3 |
| 930HO | 3000K | 1000 | 88.7 | 11.3 |
| 930VHO | 3000K | 1250 | 85.5 | 14.6 |
| 935LO | 3500K | 400 | 86.0 | 4.7 |
| 935MO | 3500K | 750 | 89.8 | 8.4 |
| 935HO | 3500K | 1000 | 92.0 | 10.9 |
| 935VHO | 3500K | 1250 | 88.3 | 14.2 |
| 940LO | 4000K | 400 | 85.1 | 4.7 |
| 940MO | 4000K | 750 | 88.8 | 8.5 |
| 940HO | 4000K | 1000 | 90.7 | 11.0 |
| 940VHO | 4000K | 1250 | 87.1 | 14.4 |

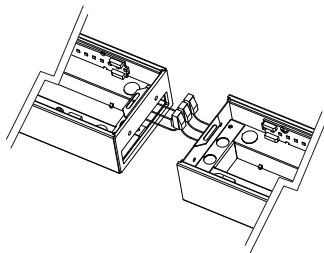
Length

- 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

| | | |
|--------------------|--------------------|--|
| 4 | 8 | — |
| 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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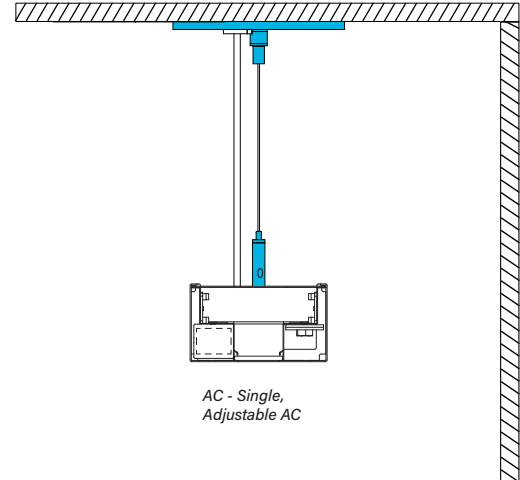
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Mounting

- 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, 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 15 lbs. per 4' fixture

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

| | |
|----------|---------------------|
| U | Universal (120-277) |
| 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
- Some Tesa 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) |
| LH1 | Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1 |
| OL2 | Osram Optotronic 1%, 0-10v, nominal 1% dimming range |
| ND | Non-Dimming |

Circuiting

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

| | |
|----------|--------------------------|
| 1 | Single Circuit |
| M | Multi Circuit |
| E | Emergency Circuit only |
| N | Night Light Circuit only |

Battery

- Select battery section type if required, indicate total QTY. Example 2BRH
- 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

| | |
|------------|--|
| 0 | No battery |
| PR | Bodine 10w Remote |
| PRH | Bodine 20w Remote |
| PLL | Bodine 10w Integral Lithium (self testing) |
| IR | Iota 10w Remote |
| IHR | Iota 10w Remote |
| ILL | Iota 10w integral (self testing) |
| IHR | Iota 10w Remote |

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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) |

Fixture Options

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

QS QuickShip

Quick Ship

| Shielding | CRI, CCT & Output | Mounting | Voltage | Driver | Circuiting | Battery | Finish |
|-----------|-------------------|----------|---------|--------|------------|---------|--------|
|-----------|-------------------|----------|---------|--------|------------|---------|--------|

10-Day

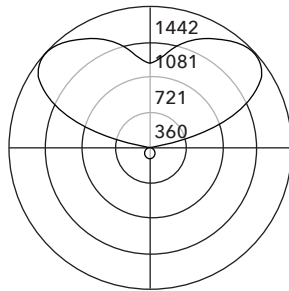
| | | | | | | | | |
|----------|--|---|---|---|--|---|---------------|-----------------------------------|
| A | 80 CRI, all color temperatures, all lumen packages See pg 2 | AC48G_ AC48JB AC48ST | (M)AC to Grid (M)AC to J-BOX (M)AC to Structure | U Universal (120-277) 1 120V 2 277V | PL2 Advance Xitanium 0-10v, 1% LH1 Lutron LDE1 OL2 Osram 0-10v, 1% ND Non- Dimming | 1 Single Circuit E Emergency N Night Light | 0 None | W White S Silver |
|----------|--|---|---|---|--|---|---------------|-----------------------------------|

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

Photometrics

Satine Lens

| | |
|-----------|----------------------|
| Test # | Scaled from ITL90271 |
| Catalog # | T4A-840VHO-4 |
| Lumens | 5000 lm |
| Watts | 44.8 w |
| Efficacy | 111.6 lm/w |



Candela Distribution

| Vert Angle | Horizontal Angle | | | | | |
|------------|------------------|------|------|------|------|--|
| | 0 | 22.5 | 45 | 67.5 | 90 | |
| 0 | 127 | 127 | 127 | 127 | 127 | |
| 5 | 127 | 127 | 127 | 127 | 127 | |
| 15 | 122 | 122 | 123 | 123 | 122 | |
| 25 | 114 | 113 | 114 | 114 | 113 | |
| 35 | 103 | 102 | 102 | 102 | 101 | |
| 45 | 86 | 86 | 86 | 86 | 85 | |
| 55 | 67 | 67 | 67 | 66 | 66 | |
| 65 | 47 | 47 | 47 | 46 | 46 | |
| 75 | 24 | 25 | 24 | 24 | 24 | |
| 85 | 5 | 6 | 6 | 6 | 6 | |
| 90 | 0 | 0 | 0 | 0 | 0 | |
| 95 | 29 | 57 | 70 | 66 | 65 | |
| 105 | 169 | 343 | 477 | 497 | 525 | |
| 115 | 341 | 619 | 920 | 1047 | 1105 | |
| 125 | 496 | 771 | 1116 | 1332 | 1403 | |
| 135 | 622 | 856 | 1154 | 1355 | 1429 | |
| 145 | 719 | 892 | 1135 | 1293 | 1346 | |
| 155 | 789 | 896 | 1074 | 1185 | 1223 | |
| 165 | 832 | 880 | 974 | 1040 | 1064 | |
| 175 | 851 | 858 | 873 | 886 | 891 | |
| 180 | 853 | 853 | 853 | 853 | 853 | |

Luminance Data (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 3450 | 3450 | 3410 |
| 55 | 3335 | 3335 | 3286 |
| 65 | 3148 | 3148 | 3083 |
| 75 | 2677 | 2677 | 2677 |
| 85 | 1590 | 1908 | 1908 |

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. Maximum fixture weight is 15 lbs. per 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. 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. MacAdam 3-Step Ellipses. 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 Tesa 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 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.

Labels: UL and cUL Listed. Approved for dry/damp location unless otherwise noted.

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

Buy American Act Compliant

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

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