

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-FSD-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> (10% Direct / 90% Indirect)	_27_ - 2700K _30_ - 3000K _35_ - 3500K _40_ - 4000K CL ----- - Custom Lumens CW ----- - Custom Watts <i>Lumen Output pg. 2</i> Example: 830HO is 8 = 80 CRI; 30 = 3000K; HO = High Output; Blank = Standard Output	_ - 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>
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VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY ³
U - Universal <i>QS</i> (120 thru 277V) 1 - 120V <i>QS</i> 2 - 277V <i>QS</i> 3 - 347V <i>Voltage pg. 3</i>	FSD - Factory Select Driver (1%, 0-10v) <i>QS</i> PL2 - Advance Xitanium (1%, 0-10v) OL2 - eldoLED Optotronic (1%, 0-10v) OL4 - eldoLED Optotronic 347v (1%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) <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> PLL - Bodine 10w Integral Lithium <i>QS</i> <i>Battery and Emergency pg. 3</i>
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FINISH	FIXTURE OPTIONS ⁴		
W - White <i>QS</i> S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 4</i>	QS - QuickShip <i>QS</i> DSP - Customer Supplied Battery/Driver/ Sensor <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 continuous 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.

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.



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

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	Shielding¹	
			A Satine LPW	Watts/ft
830LO	3000K	500	120	4.2
830MO	3000K	750	126	5.9
830HO	3000K	1000	123	8.2
830VHO	3000K	1250	119	10.5
835LO	3500K	500	122	4.1
835MO	3500K	750	129	5.8
835HO	3500K	1000	125	8.0
835VHO	3500K	1250	122	10.3
840LO	4000K	500	126	4.0
840MO	4000K	750	127	5.9
840HO	4000K	1000	129	7.7
840VHO	4000K	1250	126	9.9

90 CRI

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

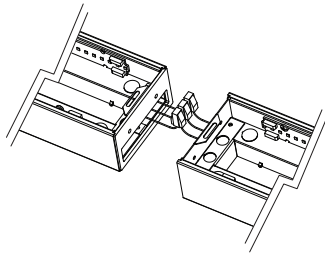
Length

- 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

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

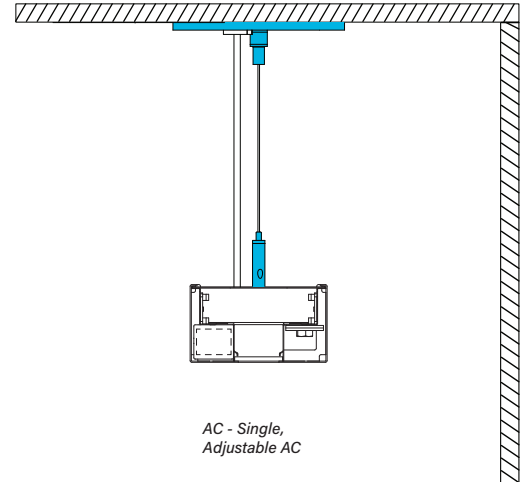




Mounting

- 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

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 = 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

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

DALI Drivers

OD1	eldoLED Optotronic 1%, DEXAL
OD2	eldoLED Optotronic 1%, DALI 2 Channel

Lutron Drivers

LH1	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

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
1PLL	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

W	White (white cord/white canopy)
S	Metallic Silver (white 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	Quick Ship
DSP	Customer Supplied Battery/Driver/Sensor

Quick Ship

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

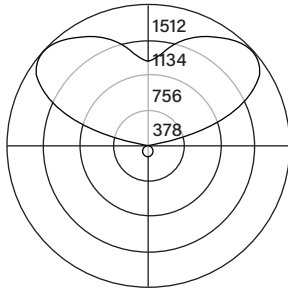
A	80 CRI, all color temperatures, all lumen packages See pg 2	AC48G_ AC48JB AC48ST	(M)AC to Grid (M)AC to J-BOX (M)AC to Structure	U	Universal (120-277) 1 120V 2 277V	FSD	Factory Select Driver (1%, 0-10V)	1	Single Circuit	0	None	W	White
								E	Emergency	_PLL	Bodine 10w, Lithium	S	Silver
								N	Night Light				

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

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

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%. 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≥250.

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.

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).

Buy American Act Compliant

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

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