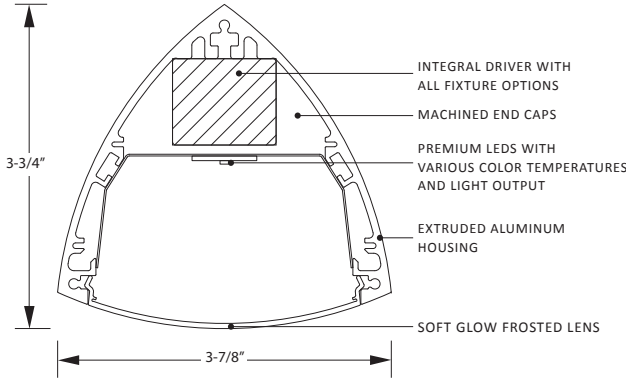


Thallium 3 LED

CABLE SUSPENDED (CS)



FEATURES:

- 3/64" aircraft cable suspension system
- High transmission frosted lenses with no diode imaging
- No visible fasteners
- Extruded aluminum housing
- Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warranty
- Under 2 steps MacAdams Ellipse Binning
- 3/8" thick machined end caps
- 360° rotation option- with mechanical locking



PRODUCT SPECIFICATION

NOTE: All options *italicized in gray* may increase lead times and/or incur higher costs - please consult factory with questions.

FIXTURE TYPE	MOUNTING/ ORIENTATION	NOMINAL LENGTH*	COLOR TEMP	LED DRIVE POWER	VOLTAGE	DRIVER
TI3						
TI3 Thallium 3	CSD Cable Suspended - DIRECT CSI Cable Suspended - INDIRECT CSR Cable Suspended - ROTATIONAL	1' 1-1-3/8"*** 2' 2-1-3/8" 3' 3-1-3/8"*** 4' 4-1-3/8" 5' 5-1-3/8"*** 6' 6-1-3/8" 7' 7-1-3/8"*** 8' 8-1-3/8" 12' 12-1-3/8"*** CR _ Continuous Run (Specify length in nominal feet)	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	VLO Very Low Output 410 lumens/ft. (4w/ft.) LO Low Output 620 lumens/ft. (6w/ft.) SO Standard Output 815 lumens/ft. (8w/ft.) HO High Output 1,020 lumens/ft. (10w/ft.) VHO Very High Output 1,185 lumens/ft. (12w/ft.) DHO Dual High Output 2,035 lumens/ft. (19.5w/ft.) CPO Custom Power Output Consult factory	UNV Universal (120-277v) 1V 120v 2V 277v 3V 347v*	ND Non-Dimming 0-10v DIMMING 10D 10% DIM 1D 1% DIM LUTRON LTEA Lutron Hi-Lume 1% (2-Wire) LDE1 Lutron EcoSystem 1% "Soft on" (Digital) LDES Lutron EcoSystem 5% 5-Series (Digital) DALI DALI Digital Addressable Lighting Interface
		*Dimensions are for reference only. Contact factory for more specific information or shop drawings. **Odd lengths may incur slightly higher per foot pricing.				*Not all dimming options are available with 347v.

HOUSING FINISH	HARDWARE* DETAIL FINISH	CANOPY SIZE OPTIONS*	CANOPY FINISH	POWER CORD COLOR	AIRCRAFT CABLE LENGTH*	OPTIONS/ CUSTOMIZATION*
SC Satin Clear Anodize (Standard) SW Satin White (Powder Coat) MB Matte Black (Powder Coat) CF Custom Finish* (Consult factory)	MF Machined Finish (Standard) CF Custom Finish (Consult factory)	5 SERIES CANOPY 55 5" Power feed canopy 5" Non-power feed canopy 52 5" Power feed canopy 2" Non-power feed canopy 50 5" Power feed canopy Canopy only at power feed 4 SERIES CANOPY 44 4" Power feed canopy 4" Non-power feed canopy 41 4" Power feed canopy 1" Non-power feed canopy 40 4" Power feed canopy Canopy only at power feed	SW Satin White (Standard) CPC Custom Powder Coat canopy finish* MF Machine Finish (Standard) SW Satin White CF Custom Finish*	W White G Gray B Black CC Custom Cord*	2 2' 4 4' 6 6' 8 8' CL _ Custom Length Specify in feet (IE: CL10 for 10') Consult factory to confirm spec	XX No EMB or Customization EMB7 7 Watt battery back-up** (Approximately 600 lumens) EMB12 12 Watt battery back-up** (Approximately 1,000 lumens) 90 90+ CRI LED BOARDS (2700K - 4000K only) CCP Corners/patterns* CD Custom Driver* CR Customization Requested*
*RAL and color match are available.	NOTE: The MF option is strongly recommended. Other options will result in higher costs and potentially longer lead times. **Hardware* refers to the end caps and knuckles (knuckles only for the "Rotational" option).	*See options section and installation instructions for more information.	*Just about any finish is possible. For the 4" machined canopies, MF is strongly recommended. Contact the factory with questions or requests.	*Consult factory.	*Cables are field adjustable.	*Consult factory for all custom options or custom concept requests. NOTE: Customization may incur higher costs and/or increased lead times. **The EMB12 is slightly more expensive than the EMB7 option (BOTH OPTIONS ARE INTEGRAL).

SPECIFICATION INFORMATION

GENERAL NOTES:

All fixtures are **UL listed** for **dry** and **damp** locations.

INTEGRAL DRIVER for all options.

Please contact the factory with any specification questions.

Italicized grayed out options may incur additional costs and/or extended lead times. Please consult the factory.

FIXTURE ORIENTATION:

Direct (CSD) for downlight applications.

Indirect (CSI) for uplight applications.

Rotational (CSR) for adjustable applications: 360 degree rotational capacity with locking mechanism.

DRIVER: [INTEGRAL]

1) NON-DIMMING: As described... this fixture will not dim.

2) DIMMING: 0-10v: 1%, 10% :: Lutron: 2-wire Forward phase (Hi-Lume 1%), Ecosystem to 1% (Soft On), Ecosystem to 5% (5 Series). "DALI"- Specify driver. See "Dimming Options" on subsequent pages for more information. For other dimming options, consult the factory.

3) EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 or 1,000 lumens - the latter is slightly more costly).

4) Drivers are programmed according to our standard lumen packages or to custom watt/lumen package requirements.

5) Consult factory with any questions or specification requirements.

FINISHES:

The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machined finish is preferable for machined components (Hardware Detail) - Powder coating these parts may result in additional costs. Consult the factory with any questions about standard or custom finishing options.

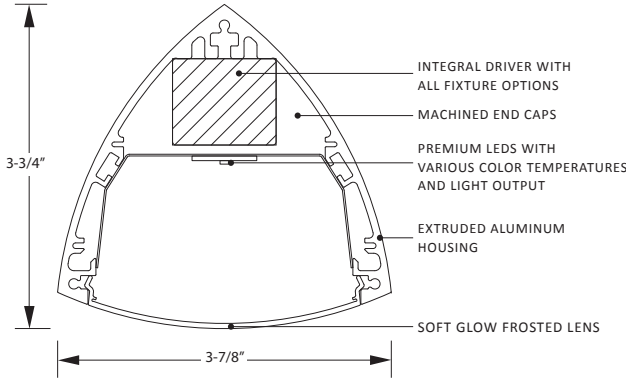
CUSTOMIZATION:

We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.



Thallium 3 LED

ROTATIONAL ARM MOUNT (RAM)



FEATURES:

- 5/8" diameter rigid tube mounting system
- High transmission frosted lenses with no diode imaging
- No visible fasteners
- Extruded aluminum housing
- Dimmable/Programmable drivers for controllable light output
- High efficacy LEDs with 5 year warrant
- Under 2 steps MacAdams Ellipse Binning
- 3/8" thick machined end caps
- 360° rotation option- with mechanical locking

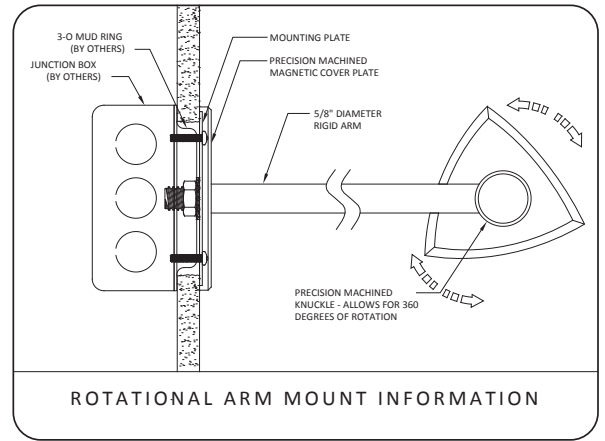


PRODUCT SPECIFICATION

NOTE: All options *italicized in gray* may increase lead times and/or incur higher costs - please consult factory with questions.

FIXTURE TYPE	MOUNTING	NOMINAL LENGTH*	COLOR TEMP	LED DRIVE POWER	VOLTAGE	DRIVER	HOUSING FINISH
TI3 Thallium 3	RAM Rotational Arm Mount	1' 1'-1-3/8"*** 2' 2'-1-3/8" 3' 3'-1-3/8"*** 4' 4'-1-3/8" 5' 5'-1-3/8"*** 6' 6'-1-3/8" 7' 7'-1-3/8"*** 8' 8'-1-3/8" 12' 12'-1-3/8"*** CR_ Continuous Run (Specify length in nominal feet)	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	VLO Very Low Output 410 lumens/ft. (4w/ft.) LO Low Output 620 lumens/ft. (6w/ft.) SO Standard Output 815 lumens/ft. (8w/ft.) HO High Output 1,020 lumens/ft. (10w/ft.) VHO Very High Output 1,185 lumens/ft. (12w/ft.) DHO Dual High Output 2,035 lumens/ft. (19.5w/ft.) CPO Custom Power Output Consult factory	UNV Universal (120-277v) 1V 120v 2V 277v 3V 347v*	ND Non-Dimming 0-10v DIMMING 10D 10% DIM 1D 1% DIM LUTRON LTEA Lutron Hi-Lume 1% (2-Wire) LDE1 Lutron EcoSystem 1% "Soft on" (Digital) LDES Lutron EcoSystem 5% 5-Series (Digital) DALI DALI Digital Addressable Lighting Interface	SC Satin Clear Anodize (Standard) SW Satin White (Powder Coat) MB Matte Black (Powder Coat) CF Custom Finish* (Consult factory)
		*Dimensions are for reference only. Contact factory for more specific information or shop drawings. **Odd lengths may incur slightly higher per foot pricing.				*Not all dimming options are available with 347v.	
						*RAL and color match are available.	

HARDWARE* DETAIL FINISH	ARM LENGTH*	MOUNTING/COVER PLATE	OPTIONS/CUSTOMIZATION
MF Machined Finish (Standard) CF Custom Finish (Consult factory)	3 3" 6 6" 9 9" 12 12"*** CAL Custom Arm Length- Consult factory	4CPF Flat 4" diameter Cover Plate - For use with a 3-O mud ring CCP Custom Cover Plate (Consult factory)	XX No EMB or Customization EMB7 7 Watt battery back-up** (Approximately 600 lumens) EMB12 12 Watt battery back-up** (Approximately 1,000 lumens) 90 90+ CRI LED BOARDS (2700K - 4000K only) CCP Corners/patterns* CD Custom Driver* CR Customization Requested*
NOTE: The MF option is strongly recommended. Other options will result in higher costs and potentially longer lead times. **"Hardware" refers to the end caps, knuckles, arms, and cover plates.		*Consult factory for all custom options or custom concept requests. NOTE: Customization may incur higher costs and/or increased lead times. **The EMB12 is slightly more expensive than the EMB7 option (BOTH OPTIONS ARE INTEGRAL).	



SPECIFICATION INFORMATION

GENERAL NOTES:

All fixtures are **UL listed** for **dry** and **damp** locations.
INTEGRAL DRIVER for all options.
 Please contact the factory with any specification questions.
Italicized grayed out options may incur additional costs and/or extended lead times. Please consult the factory.

DRIVER: [INTEGRAL]

- 1) NON-DIMMING: As described... this fixture will not dim.
- 2) DIMMING: 0-10v: 1%, 10% :: Lutron: 2-wire Forward phase (Hi-Lume 1%), Ecosystem to 1% (Soft On), Ecosystem to 5% (5 Series). "DALI"- Specify driver. See "Dimming Options" on subsequent pages for more information. For other dimming options, consult the factory.
- 3) EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 or 1,000 lumens - the latter is slightly more costly).
- 4) Drivers are programmed according to our standard lumen packages or to custom watt/lumen package requirements.
- 5) Consult factory with any questions or specification requirements.

FINISHES:

The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machined finish is preferable for machined components (Hardware Detail) - Powder coating these parts may result in additional costs. Consult the factory with any questions about standard or custom finishing options.

CUSTOMIZATION:

We have numerous custom options available. However, if there is something unique required for a project, from simple options to complete custom requests, we are more than willing to entertain any creative notions you might have. Just ask.



Thallium₃ LED

PHOTOMETRIC DATA

LED COMPONENT INFORMATION

- Fixture delivered light potential: 103 Lumens/Watt*
- Uniform light distribution
- 90+ CRI LED diode options
- Exceptional binning- less than 2 step MacAdams Ellipse
- Minimum 70% initial lumen output at 70,000 hours
- Standard 0-10v dimming to %10
- Lutron, Eldoled, Dali, and other dimming options
- 5 year system warranty

*Actual fixture efficacy will be dependent on specification. Higher lumens per watt are achieved with lower drive powers. Please contact the factory with questions or for more information.

LUMEN OUTPUT*

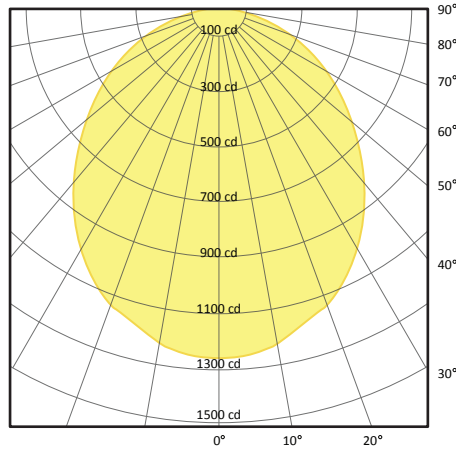
DRIVER OUTPUT	LUMEN OUTPUT (PER FOOT)	
	WATTAGE	LUMENS
VERY LOW (VLO)	4	410
LOW (LO)	6	620
STANDARD (SO)	8	815
HIGH (HO)	10	1,020
VERY HIGH (VHO)	12	1,185
DUAL HIGH (DHO)	19.5	2,035

DRIVER OUTPUT	PER 4' FIXTURE (TOTAL DELIVERED LUMENS)	
	WATTAGE	LUMENS
VERY LOW (VLO)	16	1,640
LOW (LO)	24	2,480
STANDARD (SO)	32	3,260
HIGH (HO)	40	4,080
VERY HIGH (VHO)	48	4,740
DUAL HIGH (DHO)	78	8,140

- **VERY LOW:** Considerably underdrives the LEDs to maximize fixture efficacy potential and limit wattage use.
- **LOW:** Underdrives the LEDs for reasonable light output while maintaining low wattage use.
- **STANDARD:** Drives the LEDs for the best combination of lumen output and fixture efficacy.
- **HIGH:** Drive the LEDs at higher capacity for higher lumen output with good efficacy.
- **VERY HIGH:** Drives the LEDs at the highest capacity for the highest lumen output with the best efficacy.

*Lumen output will vary depending on ambient temperature. Cooler ambient and LED color temperatures result in higher luminaire performance. Calculations are based on 3500K LEDs.

LUMINOUS INTENSITY DISTRIBUTION



FIXTURE PROPERTIES (AS TESTED)

- 4' nominal length fixture
- Standard Output (SO)
- Total system energy consumption: 32 Watt
- 103 Lumens/Watt
- 4000K 80 CRI LED

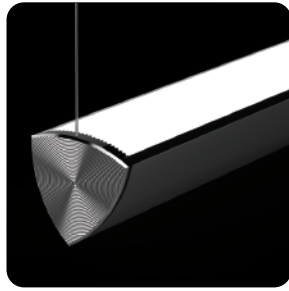
ZONAL LUMEN SUMMARY

ZONE	LUMEN	%LAMP	%FIXTURE
0 - 30	944	21.9%	29%
0 - 40	1,516	35.1%	46.6%
0 - 60	2,571	59.9%	79.1%
0 - 90	3,252	75.3%	100%



OPTIONS GUIDE

MOUNTING



CABLE SUSPENDED (CS)

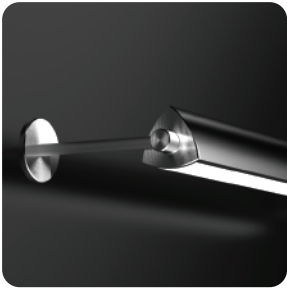
3/64" aircraft cable suspension system. Thallium 3 (T13) can be static down-light: Direct (CSD), static up-light: Indirect (CSI), or Rotational (see below). Standard and custom power cord finishes, sleeve options, and canopy colors offer options to match almost any space. Stainless steel cables come in various lengths (4' is standard) and are field adjustable.



CABLE SUSPENDED ROTATIONAL (CS-R)

Using a similar setup to the Cable Suspended system above, the Cable Suspended- Rotational system has 360 degree rotational capacity with mechanical fasteners to lock fixtures in place if desired. This system offers incredible flexibility, light direction control, and a dynamic aesthetic.

(360 DEGREE ROTATION)



ROTATIONAL ARM MOUNT (RAM)

This system uses 5/8" diameter aluminum arms and subtle details in combination with a 360 degree rotational capacity to create some of the most versatile linear fixtures in the architectural market. Standard mounting uses 3-O mud rings (supplied by others) or a 1" optional trim ring for furniture mounted applications. Engineered with no visible fasteners, smooth rotation, and mechanical locking, the RAM system reveals an impressive aesthetic with exceptional versatility.

(360 DEGREE ROTATION)



Made in the USA

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Lumium
lighting at its element

OPTIONS GUIDE

CONTINUOUS RUN

Continuous runs are available with all fixtures and have several connection options. Single Seam continuous run options offer smooth section transitions while Component Seams lend to a more dramatic visual statement. The 360 Rotational option enables individual sections to rotate independently of each other, which offers adjustable asymmetric light distribution capacity along with striking appearances such as alternating up/down fixtures or spiral transitions. The flexibility within the rotational option makes for infinite design and functional possibilities.



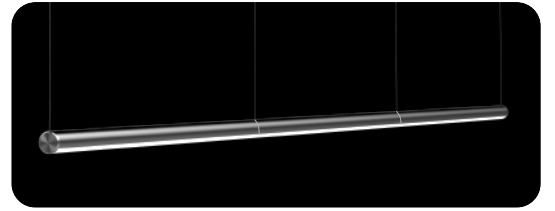
CONTINUOUS RUN
SINGLE SEAM



CONTINUOUS RUN
ROTATIONAL
(SPIRAL EFFECT)



CONTINUOUS RUN
ROTATIONAL



OXYGEN 2 (O2) WITH A SINGLE SEAM CONTINUOUS RUN

CANOPIES

STANDARD

Canopies have several standard options to suit various environment aesthetics. The standard cable suspension system has 5" Satin White canopies. However, other standard options include a 2" non-power feed canopy option as well as no canopy at all. Both of these include a 5" diameter power feed canopy.



55

5" diameter power feed and 5" diameter non-pow feed canopy. Most common canopy layout. Creates a consistent ceiling aesthetic.



52

5" diameter power feed and 2" diameter non-power feed canopy. Offers a more minimal ceiling treatment while maintaining the ability to cover up mistakes. Requires a 1/4-20 stud securely fastened to the ceiling.



50

5" diameter power feed canopy and no canopy on the non-power feed side. Minimal aesthetic. Requires a 1/4-20 stud securely attached to ceiling. Works well with continuous runs where the power can be carried inside the fixture.



44

4" diameter machined power feed and 4" diameter machined non-power feed canopy. Offers a consistent ceiling aesthetic with smaller machined canopies. Mill, anodized, and powder coat finishes available.



41

4" diameter machined power feed and 1-1/4" diameter machined non-power feed canopy. Offers minimal ceiling treatment while maintaining the ability to cover mistakes. Requires a 1/4-20 stud securely fastened to the ceiling. Mill, anodized, and powder coat finishes available.

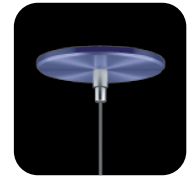


40

4" diameter machined power feed canopy and no canopy on the non-power feed side. Minimal aesthetic. Requires a 1/4-20 stud securely attached to the ceiling. Works well with continuous runs where the power can be carried inside the fixture. Mill, anodized, and powder coat finishes available.



CUSTOM POWDER COAT



CUSTOM ANODIZE



CUSTOM SHAPE



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Lumium
Lighting at its element

OPTIONS GUIDE

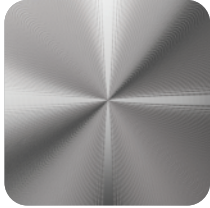
COLOR AND FINISH

Standard finish configurations are Satin Clear (SC) housing with Machined Finish (MF) machined components (end caps, knuckles, cover plates, etc.). The incredibly clean detail within all of the machined components lends to an incredibly high end aesthetic with two tone finish. Numerous custom anodizing and powder coated finishes are available as well. If you have a particular color/finish treatment in mind, please contact the factory and we will do our best to accommodate your project needs.

STANDARD





SATIN CLEAR
ANODIZING





MACHINED
COMPONENTS


CUSTOM



MATTE BLACK



GLOSS BLACK



BRONZE



MILL ALUMINUM



SPECULAR


SATIN WHITE



GLOSS WHITE


COLOR POWDER COAT


COLOR ANODIZE


RAL COLORS

FINISHED CONFIGURATION



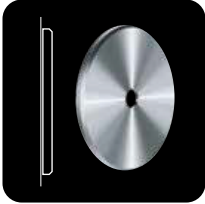
THALLIUM 2 (Th2)

Cable Suspended Rotational mount system with two-tone finish, Satin Clear housing and Machined Finish components.

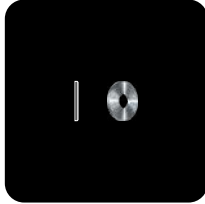
COVER PLATES

Cover plates are standard for Rotational Arm Mounting (RAM) Systems. Standard options are Flat (FT), Curved (CV), or Trim Ring (TR). With certain applications, cover plates or trim rings may not be necessary. Contact factory with questions or for more information. Custom cover plates are also available. If a certain aesthetic is desired, please contact the factory to review any concepts and we will do our best to bring your vision to life.

STANDARD

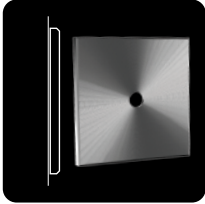


FLAT (CPFT)
Flat has a 4" diameter cover plate for use with a 3-O mud ring.

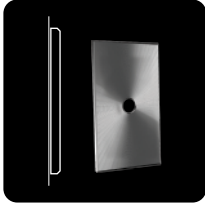


TRIM RING (TR)
1-1/4" diameter trim ring Can be used in applications such as desk mounting.


CUSTOM



SQUARE



TALL RECTANGLE



CUSTOM