# LUX DATAline

Data Center Series - Specification Sheet

Designed to meet the needs of modern DATA CENTERS. Achieve project energy goals, simplify site design with MODULAR CONSTRUCTION, reduce job complexity by utilizing the same fixtures for both hot and cold aisles, and save installation time with MULTIPLE MOUNTING and MODULAR WIRING options available.

## Performance

- Lumen output: **Up to 4,300 lumens per foot**
- Efficacy: **Up to 162 Lumens per Watt**
- $L_{70}$ (per TM-21): **60,000 Hours**
- $L_{70}$ (calculated): **189,000 Hours**
- Standard Temp. Rating: **-40°F to 122°F (-40°C to 50°C)**
- High Temp. Rating: **-40°F to 158°F (-40°C to 70°C)**
  Ambient temperature ratings vary with lumen outputs and option/adders
- Surge Protection: **2.5kV (6kV optional)**
- Driver ratings: **120-277V input, 0-10V Dimming (1% min. optional)**
  **347-480V input, 0-10V Dimming (1% min. optional)**

## Construction

- Fixture body made from extruded 6463 aluminum
- Stainless-steel hardware
- Bright dip anodized fixture body

## Optics

- Wide 120° beam angle LEDs
- Acrylic diffusing lens available in white/frosted and clear material

## Applications

- Data centers and server rooms
- High temperature applications

## Installation

- Aircraft cable suspension
- Surface mounting
- Unistrut mounting
- Aimable surface mounting
- For special requests, contact Factory

## Listing and Ratings

- UL 1598 for Dry and Damp Locations
- ARRA/BAA Compliant (Made in America)
- DLC Listed

## Warranty

- 10-Year Warranty on fixture body
- 5-Year Warranty on electronics
- For special requests, contact Factory

Example Catalog Number:

| DATA | 4 | HT | 840 | U10 |
|---|---|---|---|---|
| | Custom fixture lengths available, contact Factory | | | Other driver options available. Consult Factory. |
| Series | Length | Temperature | CRI / CCT | Voltage and Dimming |

| Series | Length | Temperature | CRI / CCT | Voltage and Dimming |
|---|---|---|---|---|
| **DATA** | **2ft** / **4ft** / **8ft**<br>2-1lm / 4-2lm / 8-4lm<br>2-2lm / 4-4lm / 8-8lm<br>2-3lm / 4-6lm / 8-12lm<br>**2-4lm** / **4-8lm** / **8-16lm**<br>**2-5lm** / **4-10lm** / **8-20lm**<br>**2-6lm** / **4-12lm** / **8-24lm**<br>**4-14lm** / **8-28lm**<br>**4-16lm** / **8-32lm**<br>"-Xlm" callout describes approximate lumen output. Full performance tables shown on pages 4 and 5. | **HT** High Temperature (-40°C to 70°C) HT options available only in greyed-out lumen packages<br>**ST** Standard Temperature (-40°C to 50°C) Standard Temperature options available in all lumen packages | **850** 80CRI 5000K<br>**840** 80CRI 4000K<br>**835** 80CRI 3500K<br>Other color rendering indexes and color temperatures are available. Consult Factory. | **U10** 120-277V 0-10V dimming 10% min.<br>**U1** 120-277V 0-10V dimming 1% min.<br>**H10** 347-480V 0-10V dimming 10% min.<br>**H1** 347-480V 0-10V dimming 1% min.<br>**POE** POE solutions available, contact Factory<br>**DC** DC solutions available, contact Factory<br>**Dimming curves and other operating characteristics may vary between models** |

## Options and Accessories

### Endcap

| | |
|---|---|
| **HM** | Hanger mount |
| **SM** | Surface mount |
| **BM** | Bolt mount |
| **TM** | Tandem mount, specify HM, SM, or BM |
| **AIM** | Rotatable surface mount endcap |
| **UM** | Unistrut surface mount endcap |

Standard mill finish, powder coating available, contact Factory.

### Lensing

| | |
|---|---|
| **NL** | No lens, bare LEDs |
| **CA** | Clear acrylic diffuse lens |
| **WA** | White/Frosted acrylic diffuse lens |

"2", "4", or "8" denotes fixture length.

### Lumen/Wattage Output

| | |
|---|---|
| **CFO** | Custom fixture output (specify custom lumen output or wattage lower than standard) |

### Emergency

| | |
|---|---|
| **E10** | 10-watt integral emergency battery |
| **E20RL** | 20-watt remote mounted emergency battery |

Integral batteries available on 4' and 8' models only, contact Factory for details.
Remote mounted batteries may require "WB" power feed, see page 7 or contact Factory for details.
Ambient temperature rating varies between options, contact Factory for details.

### Remote Mounting

| | |
|---|---|
| **(leave blank)** | Standard integral driver(s) |
| **RMS** | Remote mount driver(s) - surface mount enclosure provided |
| **RMC** | Remote mount driver(s) - cable mount enclosure provided |
| **RNK** | Remote mount driver(s) - no enclosure provided |

Restrictions may apply for certain applications, contact Factory.
4' enclosure standard, other enclosure lengths available, contact Factory.
Higher ambient temperature ratings may be available with remote drivers, contact Factory for details.

### Mounting

| | |
|---|---|
| **2P10** | 2-Point aircraft suspension - hook ends (galvanized) |
| **SM** | Surface mount, no additional hardware |

20' and 30' cable lengths available, contact Factory for details.
Custom modular options available, contact Factory for details.

### Cord

| | | |
|---|---|---|
| **(leave blank)** | No cord provided | |
| **3/10** | 3-wire, 10'cord | Standard white |
| **4/10** | 4-wire, 10'cord | Standard white |
| **5/10** | 5-wire, 10'cord | Standard white |
| **6/10** | 6-wire, 10'cord | Standard white |

**Other cord lengths available as well as multi-circuit wiring and through-wiring options.**
Standard 1/2" knockout provided in endcap for cord installation.
1st digit: Number of wires, including ground. Available from 3 through 6.
2nd digit: Overall length, including strips. Available from 10' through 30'.
Modular harness options available, contact Factory for details.

### Finish

| | |
|---|---|
| **(leave blank)** | Standard natatorium-grade bright dip anodized aluminum and mill finish endcaps |
| **PC** | Custom color by powder coat. Must specify RAL number for endcap finish. |
| **BLKG** | Glossy black finish on all components |
| **BLKM** | Matte black finish on all components |

Custom color anodized aluminum available in 2' configurations, consult Factory.
Nonstandard fixture finishes may reduce delivered lumens, consult Factory for details.

### Controls

| | |
|---|---|
| **OC-KO** | Knockout-mounted on/off occupancy sensor (120-277V input) |
| **DO-KO** | Knockout-mounted daylight harvesting sensor (120-277V input) |
| **OCKH** | High Voltage (347/480V) knockout-mounted on/off occupancy sensor |
| **DOKH** | High Voltage (347/480V) knockout-mounted high/low/off occupancy and daylight harvesting sensor |
| **Wireless Controls** | Multiple wireless control systems available, contact Factory for options and details |

Ambient temperature rating varies between options, contact Factory for details.

## Application

| | |
|---|---|
| **DATA** | General data center applications |
| **HT** | High temperature applications, contact Factory for more information |
| **BABA** | Build America Buy America (BABA) Compliant, contact Factory for more information |
| **DC** | DC solutions available, contact Factory for more information |

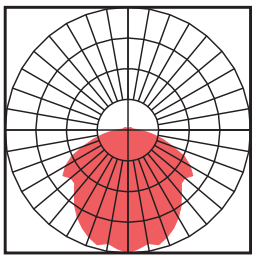
## Lumen Multipliers & Optical Distribution

| Lens | |
|---|---|
| *Standard/Nominal = WA Lens* | |
| *Lumen Multipliers Compared to "Nominal"* | |
| CA | 108.9% |
| WA (nominal) | 100.0% |

| CCT | |
|---|---|
| *Standard = 4000K CCT* | |
| 5000K | 100.0% |
| 4000K (nominal) | 100.0% |
| 3500K | 98.3% |

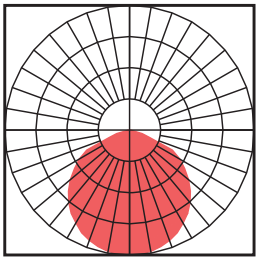
### Lensed (CA or WA)

Achieved using either of our standard lenses



### NL (No Lens)

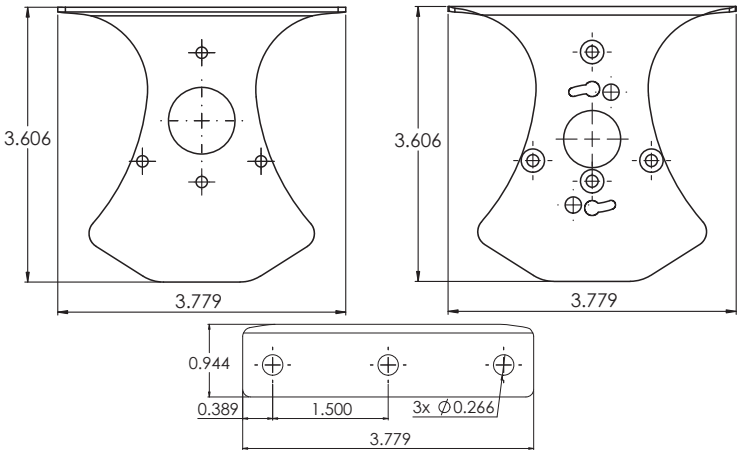
Achieved using no lens



## Endcap Option Details

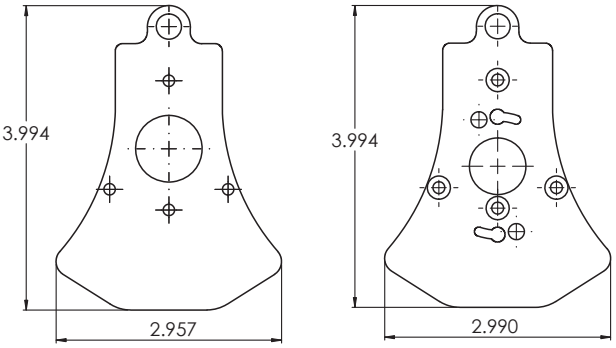
### Surface Mount

Surface mount endcap *(surface-mounting hardware provided by others)*



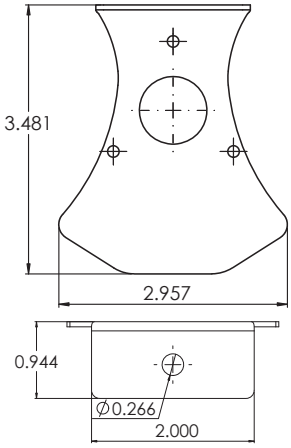

### Hanger Mount

2Pxx: Aircraft cable mounting with snap hooks (*xx denotes cable length)*



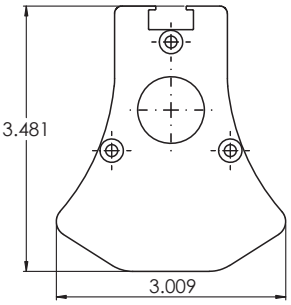

### Unistrut Mount

Unistrut mount endcap *(surface-mounting hardware and unistrut provided by others)*



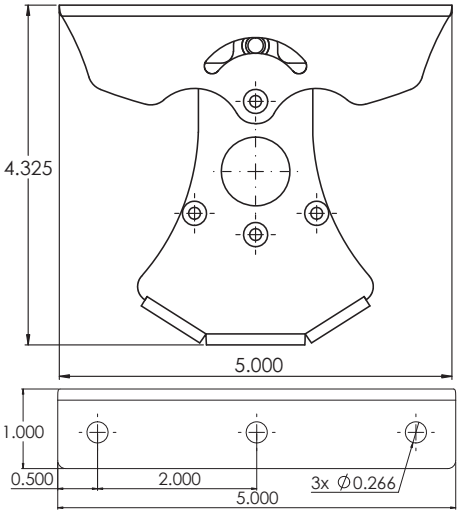

### Bolt Mount

3/8" hex head bolt mount endcap *(mounting hardware and provided by others)*




### Rotatable Surface Mount

Surface mount endcap *(surface-mounting hardware provided by others)*

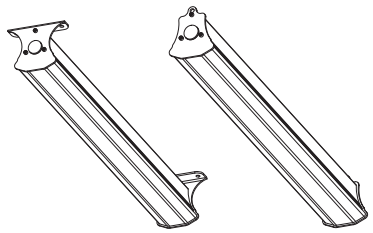


# Technical Specifications - Standard Temperature
# White/Frosted and Clear Lens Performance

## Part #

**DATA-2-850 (for 5000K), DATA-2-840 (for 4000K)** or **DATA-2-835 (for 3500K)**

- 22.46"L x 3.75"W x 3.70"H
- Weight: 3 LBS



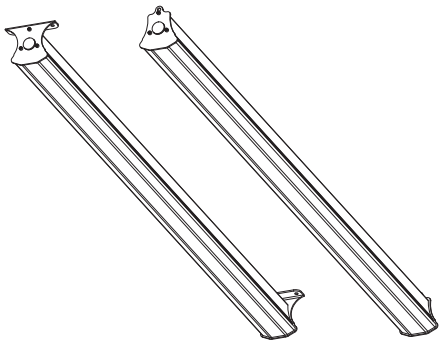
| DATA-2 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-2-1lm-ST-840-U10-xx-CA | 1,216 | 8 | 162 |
| DATA-2-2lm-ST-840-U10-xx-CA | 2,250 | 14 | 161 |
| DATA-2-3lm-ST-840-U10-xx-CA | 3,315 | 21 | 158 |
| DATA-2-4lm-ST-840-U10-xx-CA | 4,339 | 28 | 158 |
| DATA-2-5lm-ST-840-U10-xx-CA | 5,106 | 35 | 148 |
| DATA-2-6lm-ST-840-U10-xx-CA | 6,068 | 42 | 146 |

| DATA-2 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-2-1lm-ST-840-U10-xx-WA | 1,117 | 8 | 149 |
| DATA-2-2lm-ST-840-U10-xx-WA | 2,066 | 14 | 148 |
| DATA-2-3lm-ST-840-U10-xx-WA | 3,044 | 21 | 145 |
| DATA-2-4lm-ST-840-U10-xx-WA | 3,984 | 28 | 145 |
| DATA-2-5lm-ST-840-U10-xx-WA | 4,689 | 35 | 136 |
| DATA-2-6lm-ST-840-U10-xx-WA | 5,572 | 42 | 134 |

## Part #

**DATA-4-850 (for 5000K), DATA-4-840 (for 4000K)** or **DATA-4-835 (for 3500K)**

- 43.66"L x 3.75"W x 3.70"H
- Weight: 6 LBS



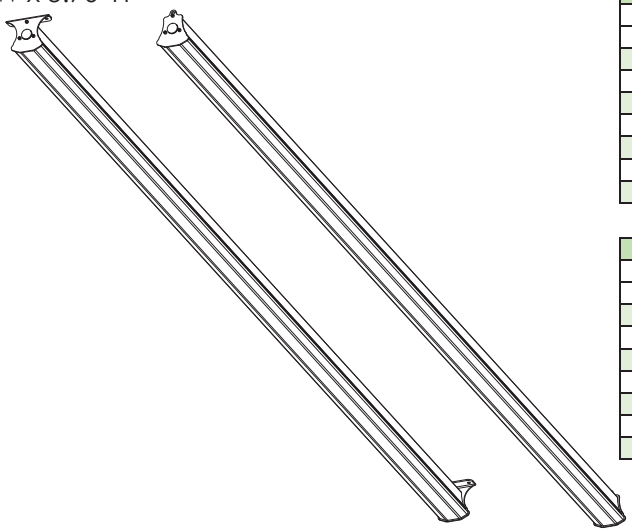
| DATA-4 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-4-2lm-ST-840-U10-xx-CA | 2,432 | 15 | 162 |
| DATA-4-4lm-ST-840-U10-xx-CA | 4,500 | 28 | 161 |
| DATA-4-6lm-ST-840-U10-xx-CA | 6,630 | 42 | 158 |
| DATA-4-8lm-ST-840-U10-xx-CA | 8,678 | 55 | 158 |
| DATA-4-10lm-ST-840-U10-xx-CA | 10,212 | 69 | 148 |
| DATA-4-12lm-ST-840-U10-xx-CA | 12,136 | 83 | 146 |
| DATA-4-14lm-ST-840-U10-xx-CA | 14,306 | 96 | 149 |
| DATA-4-16lm-ST-840-U10-xx-CA | 17,184 | 120 | 143 |

| DATA-4 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-4-2lm-ST-840-U10-xx-WA | 2,233 | 15 | 149 |
| DATA-4-4lm-ST-840-U10-xx-WA | 4,132 | 28 | 148 |
| DATA-4-6lm-ST-840-U10-xx-WA | 6,088 | 42 | 145 |
| DATA-4-8lm-ST-840-U10-xx-WA | 7,969 | 55 | 145 |
| DATA-4-10lm-ST-840-U10-xx-WA | 9,377 | 69 | 136 |
| DATA-4-12lm-ST-840-U10-xx-WA | 11,144 | 83 | 134 |
| DATA-4-14lm-ST-840-U10-xx-WA | 13,137 | 96 | 137 |
| DATA-4-16lm-ST-840-U10-xx-WA | 15,780 | 120 | 131 |

## Part #

**DATA-8-850 (for 5000K), DATA-8-840 (for 4000K)** or **DATA-8-835 (for 3500K)**

- 86.69"L x 3.75"W x 3.70"H
- Weight: 11 LBS



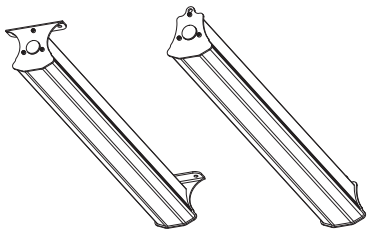
| DATA-8 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-8-4lm-ST-840-U10-xx-CA | 4,864 | 30 | 162 |
| DATA-8-8lm-ST-840-U10-xx-CA | 9,000 | 56 | 161 |
| DATA-8-12lm-ST-840-U10-xx-CA | 13,260 | 84 | 158 |
| DATA-8-16lm-ST-840-U10-xx-CA | 17,356 | 110 | 158 |
| DATA-8-20lm-ST-840-U10-xx-CA | 20,424 | 138 | 148 |
| DATA-8-24lm-ST-840-U10-xx-CA | 24,272 | 166 | 146 |
| DATA-8-28lm-ST-840-U10-xx-CA | 28,612 | 192 | 149 |
| DATA-8-32lm-ST-840-U10-xx-CA | 34,368 | 240 | 143 |

| DATA-8 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-8-4lm-ST-840-U10-xx-WA | 4,466 | 30 | 149 |
| DATA-8-8lm-ST-840-U10-xx-WA | 8,264 | 56 | 148 |
| DATA-8-12lm-ST-840-U10-xx-WA | 12,176 | 84 | 145 |
| DATA-8-16lm-ST-840-U10-xx-WA | 15,938 | 110 | 145 |
| DATA-8-20lm-ST-840-U10-xx-WA | 18,755 | 138 | 136 |
| DATA-8-24lm-ST-840-U10-xx-WA | 22,288 | 166 | 134 |
| DATA-8-28lm-ST-840-U10-xx-WA | 26,274 | 192 | 137 |
| DATA-8-32lm-ST-840-U10-xx-WA | 31,559 | 240 | 131 |

# Technical Specifications - High Temperature
# White/Frosted and Clear Lens Performance

## Part #
**DATA-2-850 (for 5000K), DATA-2-840 (for 4000K)** or **DATA-2-835 (for 3500K)**

- 23.06"L x 3.75"W x 3.70"H
- Weight: 3 LBS
- High Temperature applications

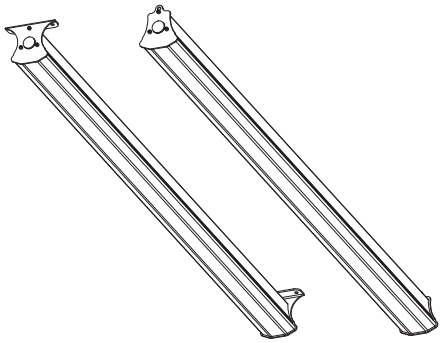


| DATA-2 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-2-1lm-HT-840-U10-xx-CA | 1,216 | 7 | 177 |
| DATA-2-2lm-HT-840-U10-xx-CA | 2,250 | 13 | 175 |
| DATA-2-3lm-HT-840-U10-xx-CA | 3,315 | 19 | 172 |

| DATA-2 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-2-1lm-HT-840-U10-xx-WA | 1,117 | 7 | 162 |
| DATA-2-2lm-HT-840-U10-xx-WA | 2,066 | 14 | 148 |
| DATA-2-3lm-HT-840-U10-xx-WA | 3,044 | 22 | 138 |

## Part #
**DATA-4-850 (FOR 5000K), DATA-4-840 (for 4000K)** or **DATA-4-835 (for 3500K)**

- 46.13"L x 3.75"W x 3.70"H
- Weight: 6 LBS
- High Temperature application

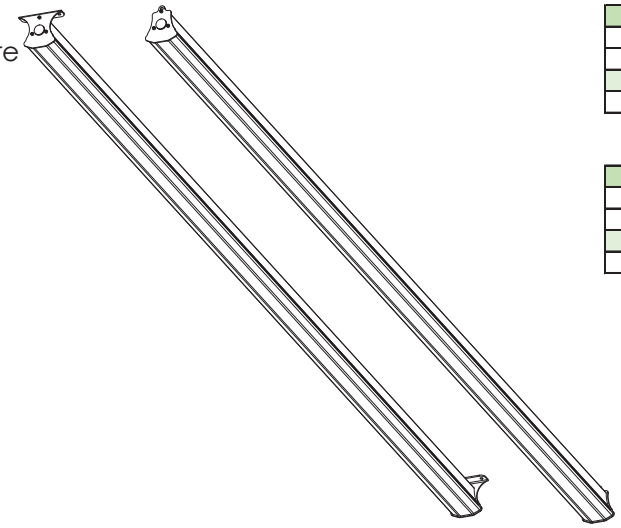


| DATA-4 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-4-2lm-HT-840-U10-xx-CA | 2,432 | 14 | 177 |
| DATA-4-4lm-HT-840-U10-xx-CA | 4,500 | 26 | 175 |
| DATA-4-6lm-HT-840-U10-xx-CA | 6,630 | 39 | 172 |

| DATA-4 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-4-2lm-HT-840-U10-xx-WA | 2,233 | 14 | 162 |
| DATA-4-4lm-HT-840-U10-xx-WA | 4,132 | 26 | 161 |
| DATA-4-6lm-HT-840-U10-xx-WA | 6,088 | 39 | 158 |

## Part #
**DATA-8-850 (for 5000K), DATA-8-840 (for 4000K)** or **DATA-8-835 (for 3500K)**

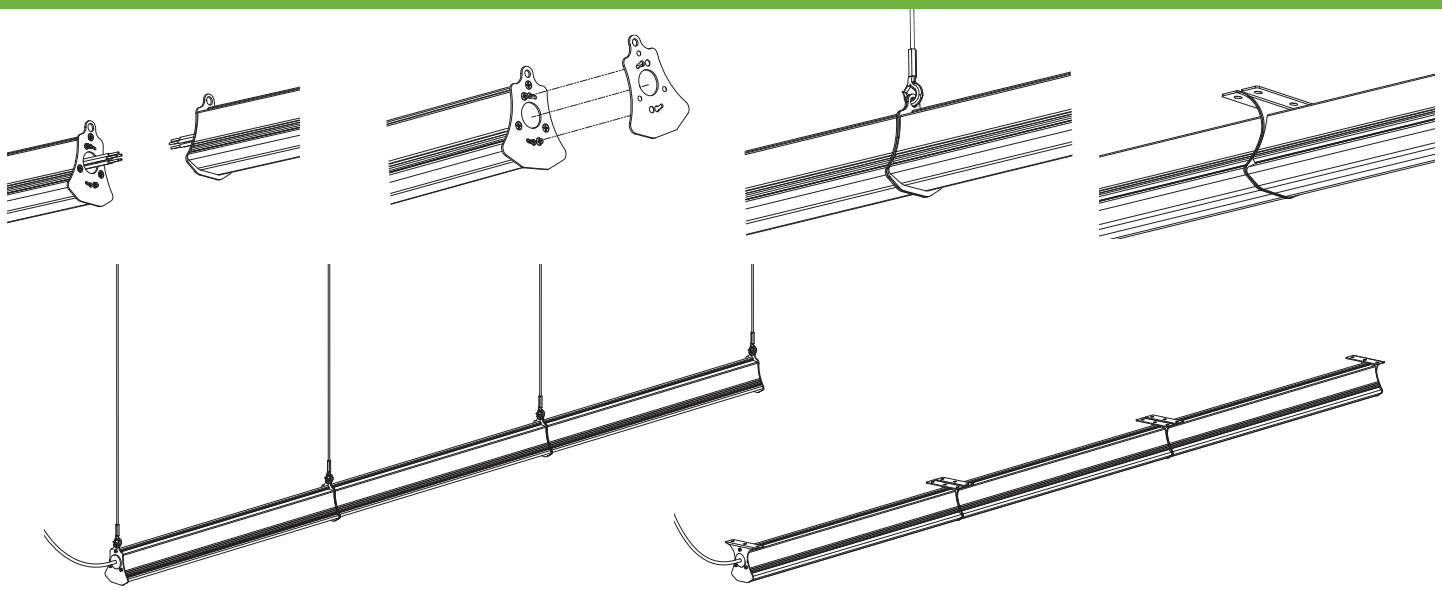
- 91.13"L x 3.75"W x 3.70"H
- Weight: 11 LBS
- High Temperature applications



| DATA-8 with CA lens (Clear Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-8-4lm-HT-840-U10-xx-CA | 4,864 | 28 | 177 |
| DATA-8-8lm-HT-840-U10-xx-CA | 9,000 | 51 | 175 |
| DATA-8-12lm-HT-840-U10-xx-CA | 13,260 | 77 | 172 |

| DATA-8 with WA lens (White Acrylic) | | | |
|---|---|---|---|
| Lens Option | Delivered Lumens | Wattage | Efficacy |
| DATA-8-4lm-HT-840-U10-xx-WA | 4,466 | 28 | 162 |
| DATA-8-8lm-HT-840-U10-xx-WA | 8,264 | 51 | 161 |
| DATA-8-12lm-HT-840-U10-xx-WA | 12,176 | 77 | 158 |

## Hanger and Surface Tandem Mount

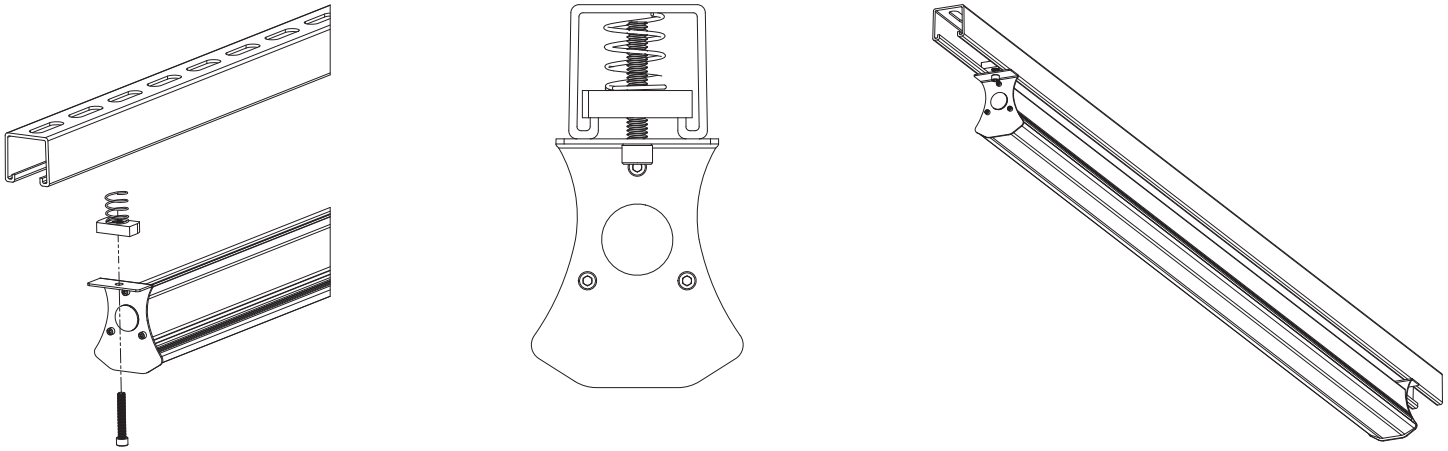


"TM-HM/SM" Tandem Mount

### Hanger and Surface Mounting

- Consult Factory for tandem mounting options
- Near seamless runs of fixtures in 2', 4', and 8' increments
- Tandem-bracket locking mechanism allows for easy installation
- Run length limitations vary per application
- Wire connectors provided to splice tandem fixtures together

## Unistrut Mount



"UM" Unistrut Mount

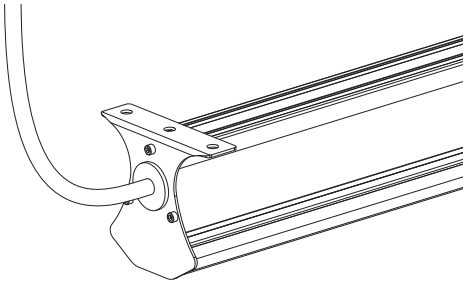
### Surface Mounting

- Mounting hardware and unistrut provided by others

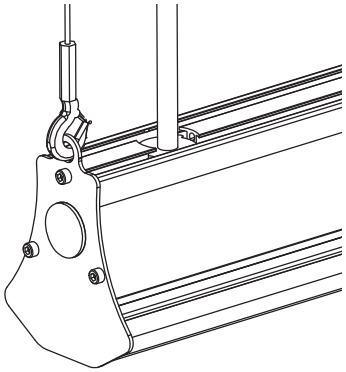
## Electrical Connections

### Standard Power Feed

Power cord fed through endcap

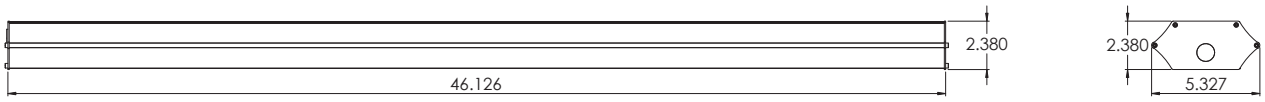


### "WB" Power Feed

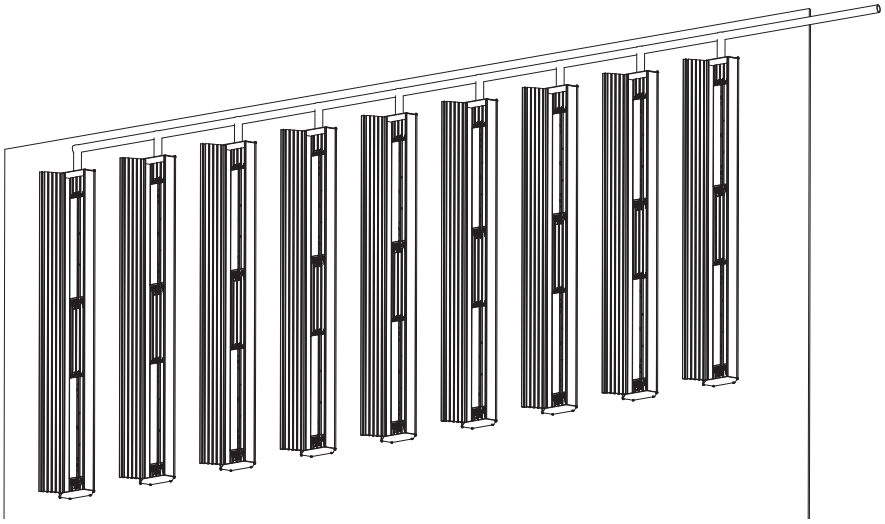


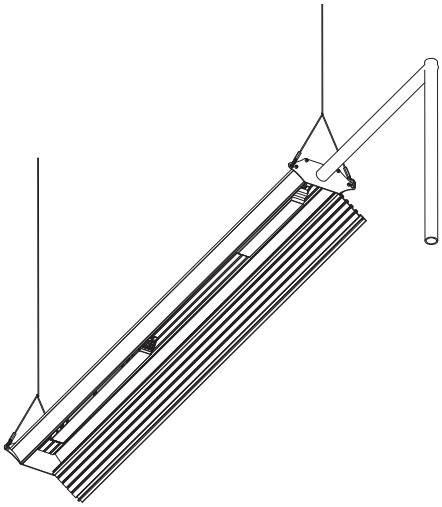
Power cord fed through machined hole in electronics channel

## Remote Mounting Options




Standard remote driver enclosure dimensions





Conduit and wiring (supplied by others) from remote driver enclosure to fixture.

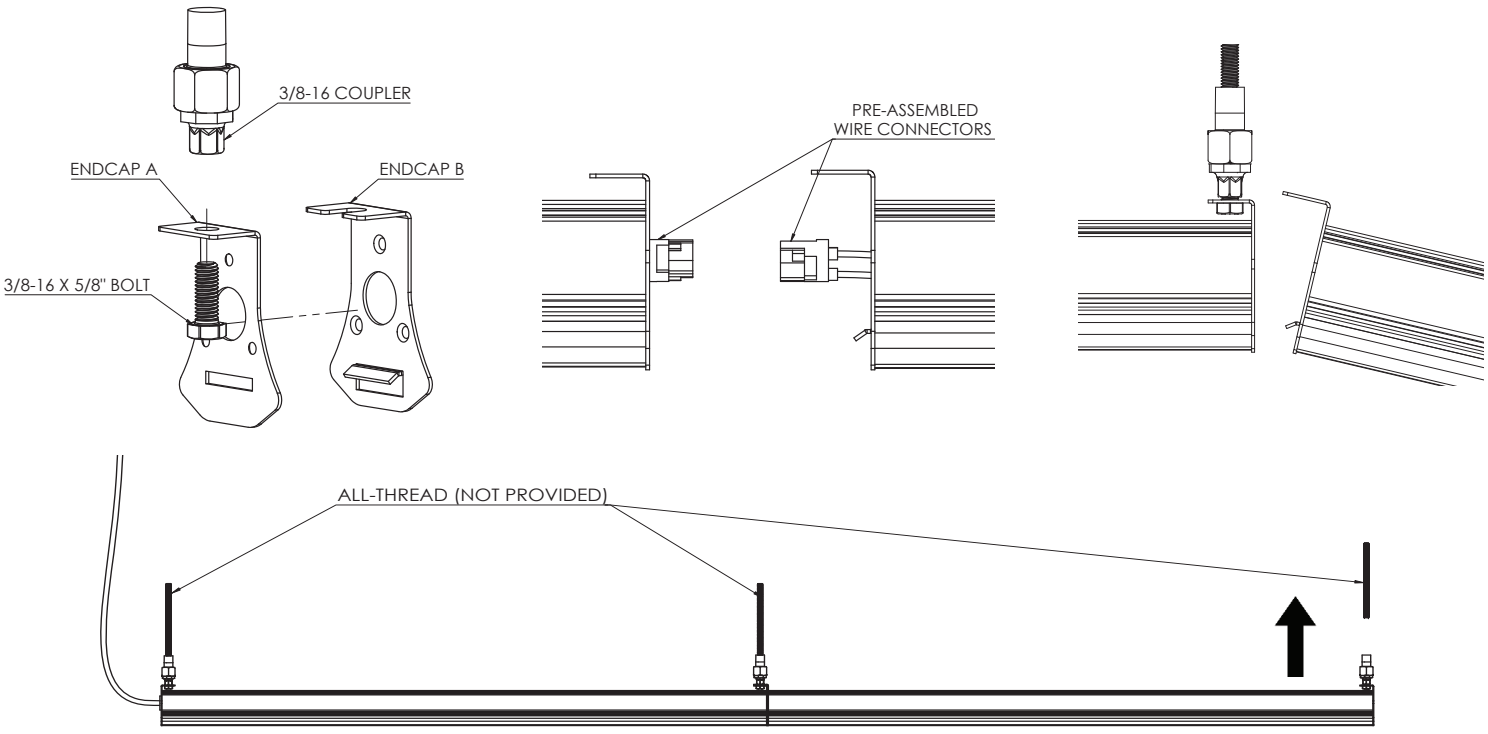
Remote driver enclosures may be surface mounted or aircraft cable mounted.
Part numbers are as follows:

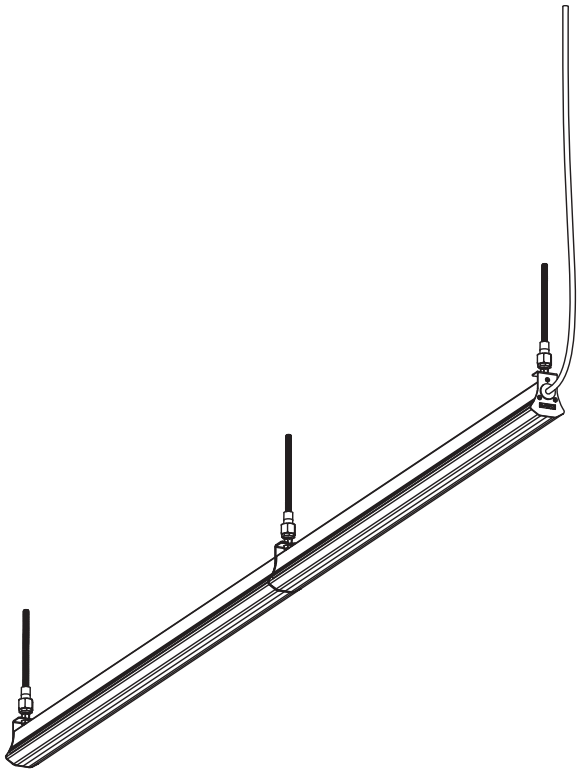
**RMS** = Remote Mount - Surface Mount
**RMC**= Remote Mount - Cable Mount

Higher ambient temperature ratings may be available with remote drivers, contact Factory for details.

Restrictions may apply for certain applications. 4' enclosure standard,
other enclosure lengths available, contact Factory.

## Unistrut Tandem Mount



### "TM-UM" Tandem Mount

#### Unistrut Mounting

- Consult Factory for tandem mounting
- options
- Near seamless runs of fixtures in 2', 4', and 8' increments
- Tandem-bracket locking mechanism allows for easy installation
- Run length limitations vary per application
- Caddy Clips provided to mount fixture to
- all-thread (not provided)
- Wire connectors provided to splice tandem fixtures together