**Palladium LED**

**FEATURES:**
- Powered Suspension System - No power cord
- 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
- Bi-directional fixture

**NOTES:**
- **REQUIRES REMOTE DRIVER(S)** (see page 4 for more info)

**PRODUCT SPECIFICATION**

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

<table>
<thead>
<tr>
<th>FIxture/Type</th>
<th>Mounting/Orientation</th>
<th>Nominal Length*</th>
<th>Color Temp</th>
<th>Direct LED Drive</th>
<th>Power</th>
<th>Indirect*</th>
<th>Voltage</th>
<th>Driver</th>
<th>Housing Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pd2 Palladium 2</td>
<td>CS Cable Suspend - Bi-DIRECTIONAL</td>
<td>1' 1-3/4”**</td>
<td>VLO</td>
<td>Very Low Output</td>
<td>365 lumens/ft. (1.7w/ft.)</td>
<td>27K</td>
<td>2700K</td>
<td>30K</td>
<td>50K, 70K</td>
</tr>
<tr>
<td></td>
<td>CSO Cable Suspend - DIRECT ONLY</td>
<td>2' 1-3/4”</td>
<td>VLO</td>
<td>Low Output</td>
<td>552 lumens/ft. (2.7w/ft.)</td>
<td>30K</td>
<td>50K, 70K</td>
<td>50K, 70K</td>
<td>SC Satin Clear Anodize</td>
</tr>
<tr>
<td></td>
<td>CSR Cable Suspend - ROTATIONAL</td>
<td>3’ 1-3/4”**</td>
<td>VLO</td>
<td>Standard Output</td>
<td>725 lumens/ft. (3.6w/ft.)</td>
<td>35K</td>
<td>50K, 70K</td>
<td>50K, 70K</td>
<td>SC Satin Clear Anodize</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4’ 1-3/4”**</td>
<td>VLO</td>
<td>High Output</td>
<td>907 lumens/ft. (4.6w/ft.)</td>
<td>40K</td>
<td>50K, 70K</td>
<td>50K, 70K</td>
<td>SC Satin Clear Anodize</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5’ 1-3/4”**</td>
<td>VLO</td>
<td>Very High Output</td>
<td>1,055 lumens/ft. (5.2w/ft.)</td>
<td>40K</td>
<td>50K, 70K</td>
<td>50K, 70K</td>
<td>SC Satin Clear Anodize</td>
</tr>
</tbody>
</table>

**SPECIFICATION INFORMATION**

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

**FIXTURE ORIENTATION:**
- Bi-directional (CS) for downlight and uplight applications.
- Direct (CSO) for ONLY downlight applications.
- Rotational (CSR) for adjustable applications: 360 degree rotational capacity with locking mechanism.

**DRIVER: [REMOTE]**
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).
3) EMERGENCY: Specify EMB under the Options/Customization category at the end of the cut sheet along with the desired lumen output (600 - 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 specific information or shop drawings.

**FINISHES:**
- The standard finish is a Satin Clear anodized housing with Machine Finished hardware. Machine finished is preferable for machined components (Hardware Details). 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.

**HARDSHARE DETAIL FINISH**
- SF: Satin Clear
- CB: Satin Black
- MF: Machined Finish (Standard)
- CF: Custom Finish (Consult factory)

**DRIVER HOUSING FINISH**
- MA: Mill Aluminum* (Standard)
- SC: Satin Clear
- SW: Satin White
- SB: Satin Black
- CF: Custom Finish (Consult factory)

**CANOPY SIZE OPTIONS**
- 5’
- 6’
- 8’

**CANOPY FINISH**
- 5” Power feed canopy (Non-power feed canopy)
- 4” Power feed canopy (Non-power feed canopy)

**POWER CORD COLOR**
- Standard Output (No power cord)
- Custom Power Output (Custom Finish)

**AIRCRAFT CABLE LENGTH**
- 2’ 2”
- 4’ 4”
- 6’ 6”
- 8’ 8”

**OPTIONS/ CUSTOMIZATION**
- XX No EMB or Customization
- EMB7 7 Watt battery back-up** (Approximately 600 lumens)
- EMB12 12 Watt battery back-up** (Approximately 1,000 lumens)

*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 REMOTE ONLY).
Palladium LED

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 warranty
• Under 2 steps MacAdams Ellipse Binning
• 3/8” thick machined end caps
• Bi-directional fixture
• 360° rotation option - with mechanical locking

NOTES:
• REQUIRES REMOTE DRIVER(S) (see page 4 for more info)

PRODUCT SPECIFICATION

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

SPECIFICATION INFORMATION

GENERAL NOTES:
All fixtures are UL listed for dry and damp locations.
REMOTE DRIVER for all options. Please contact the factory with any specification questions. italicized out options may incur additional costs and/or extended lead times. Please consult the factory.

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.
**LED COMPONENT INFORMATION**

- Fixture delivered light potential: 92 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***

<table>
<thead>
<tr>
<th>DRIVER OUTPUT</th>
<th>LUMEN OUTPUT (PER FOOT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WATTAGE</strong></td>
<td><strong>LUMENS</strong></td>
</tr>
<tr>
<td>VERY LOW (VLO)</td>
<td>7.75</td>
</tr>
<tr>
<td>LOW (LO)</td>
<td>11.5</td>
</tr>
<tr>
<td>STANDARD (SO)</td>
<td>16</td>
</tr>
<tr>
<td>HIGH (HO)</td>
<td>19.5</td>
</tr>
<tr>
<td>VERY HIGH (VHO)</td>
<td>23.5</td>
</tr>
</tbody>
</table>

**PER 4’ FIXTURE (TOTAL DELIVERED LUMENS)**

<table>
<thead>
<tr>
<th>DRIVER OUTPUT</th>
<th>WATTAGE</th>
<th>LUMENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERY LOW (VLO)</td>
<td>31</td>
<td>2,920</td>
</tr>
<tr>
<td>LOW (LO)</td>
<td>46</td>
<td>4,420</td>
</tr>
<tr>
<td>STANDARD (SO)</td>
<td>64</td>
<td>5,800</td>
</tr>
<tr>
<td>HIGH (HO)</td>
<td>78</td>
<td>7,260</td>
</tr>
<tr>
<td>VERY HIGH (VHO)</td>
<td>94</td>
<td>8,440</td>
</tr>
</tbody>
</table>

**FIXTURE PROPERTIES (AS TESTED)**

- 4’ nominal length fixture
- Standard Output (SO)
- Total system energy consumption: 64 Watt
- 92 Lumens/Watt
- 4000K 80 CRI LED

**ZONAL LUMEN SUMMARY**

<table>
<thead>
<tr>
<th>ZONE</th>
<th>LUMEN</th>
<th>%LAMP</th>
<th>%FIXTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>679</td>
<td>7.9%</td>
<td>11.7%</td>
</tr>
<tr>
<td>0 - 40</td>
<td>1,113</td>
<td>12.9%</td>
<td>19.2%</td>
</tr>
<tr>
<td>0 - 60</td>
<td>2,035</td>
<td>23.6%</td>
<td>35.1%</td>
</tr>
<tr>
<td>0 - 90</td>
<td>2,896</td>
<td>33.5%</td>
<td>50%</td>
</tr>
<tr>
<td>90 - 120</td>
<td>859</td>
<td>9.9%</td>
<td>14.8%</td>
</tr>
<tr>
<td>90 - 150</td>
<td>2,216</td>
<td>25.7%</td>
<td>38.3%</td>
</tr>
<tr>
<td>90 - 180</td>
<td>2,895</td>
<td>33.5%</td>
<td>50%</td>
</tr>
<tr>
<td>0 - 180</td>
<td>5,790</td>
<td>67%</td>
<td>100%</td>
</tr>
</tbody>
</table>

*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.
REMOTE DRIVER HOUSING INFORMATION

REMOTE DRIVER HOUSING SIZES

The driver housing length is typically dictated by the options selected. Standard driver housing lengths are as shown. Non-standard driver requests may increase or decrease the driver housing length. Specifications are subject to change without notice. Consult factory with questions, requests, or size limitations and we will do our best to accommodate your needs.

INSTRUCTIONS

See below for lid removal and installation instructions.

To remove the driver housing lid, use a broad slot screwdriver in the channel as shown here and twist the screwdriver ninety degrees. This may need to be done at both ends of the housing or multiple locations depending on the driver housing length.

1) Drill mounting holes in the driver housing as needed to secure to a suitable surface. (If needed, a power feed hole can be drilled into the bottom of the housing for certain mounting/power feed applications).

2) Secure the housing to the surface. (Fasteners by others)

3) Complete wire make-up.

4) Snap extruded lid onto the housing.

FINISHES

Mill Aluminum (MA) is the standard finish. Satin White and Satin Black powder coat and Satin Clear anodized finishes can be done for a small charge. Custom finishes are possible. Contact the factory for specific finish options, specific requests, RAL colors, or any other questions.

NOTES

Other options are possible. Please contact the factory with custom requests.
OPTIONS GUIDE

MOUNTING

CABLE SUSPENDED (CS)
Powered Suspension System. Palladium (Pd) can be static down-light and up-light: Bi-Directional (CS), static down-light ONLY: Direct (CSD), 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.

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.
**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.

**Canopies**
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.

**Standard**

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.

**Machined**

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**
Custom canopies options are available and can look spectacular in certain applications. Contact the factory with all custom requests or with any questions.

55
CUSTOM POWDER COAT

44
CUSTOM ANODIZE

40
CUSTOM SHAPE

OXYGEN 2 (O2) WITH A SINGLE SEAM CONTINUOUS RUN
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.

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

FINISHED CONFIGURATION

THALLIUM 2 (Th2)
Cable Suspended Rotational mount system with two-tone finish, Satin Clear housing and Machined Finish components.

CUSTOM

SATIN CLEAR ANODIZING
MACHINED COMPONENTS

SATIN WHITE
GLOSS WHITE
COLOR POWDER COAT
COLOR ANODIZE
RAL COLORS

MATTE BLACK
GLOSS BLACK
BRONZE
MILL ALUMINUM
SPECULAR

STANDARD

CUSTOM

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.

SQUARE
TALL RECTANGLE
CUSTOM