CYL-003
Indirect Post Luminaires
Technical Manual

7600  7601  7600T  7100  7000  7010  7200  7200P

INDIRECT POST LUMINAIRES
The CYL-003 Indirect Post Top luminaires are available as asymmetric or symmetric, depending on the angle of illumination wanted. The 7600 unit provides asymmetric illumination by reflecting light down at an angle from it’s reflector canopy. The 7601 units provides symmetrical illumination by reflecting straight light down from the reflector canopy. These semi cut-off and cut off luminaires are ideal for feature lighting in building entrances, public areas, atriums and walkways where they can aid as a wayfinding elements. Both units feature integral ballasts utilizing the latest in high efficiency ceramic metal halide lamp technology. The aluminum construction of these luminaires make it suitable for outdoor as well as indoor applications. Upward light is minimized and provides for an environmentally conscious installation.

**Lighting Concept**

The CYL-003 Indirect Post Top luminaires are available as asymmetric or symmetric, depending on the angle of illumination wanted. The 7600 unit provides asymmetric illumination by reflecting light down at an angle from it’s reflector canopy. The 7601 units provides symmetrical illumination by reflecting straight light down from the reflector canopy. These semi cut-off and cut off luminaires are ideal for feature lighting in building entrances, public areas, atriums and walkways where they can aid as a wayfinding elements. Both units feature integral ballasts utilizing the latest in high efficiency ceramic metal halide lamp technology. The aluminum construction of these luminaires make it suitable for outdoor as well as indoor applications. Upward light is minimized and provides for an environmentally conscious installation.

**CYL-003**

**Indirect Post Luminaires**
THE CYL-003 FAMILY

INDIRECT POST

The Indirect Post Top CYL-003 is designed to coordinate with other members of the CYL-003 family such as the Wall, Ceiling and Pendant mount luminaires. Available as an Asymmetric Indirect Post Top that provides illumination from an angle, a Symmetric Indirect Post Top that reflects light straight down from the reflector canopy and the Asymmetric Indirect Wall Arm that offers the same features as the Asymmetric post top but as an arm mount.

Indirect Streetscape Post Top 7600
Asymmetric Distribution

Indirect Streetscape Post Top 7601
Symmetric Distribution

Indirect Wall Arm 7600T
Asymmetric Distribution
**INDIRECT STREETSCAPE POST TOP 7600**

**ASYMMETRIC DISTRIBUTION**

Listed for wet location use to UL and CSA Standards

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**CYL-003 7600 Detailed Product Description**

1. Shade - One Piece Marine Grade Cast Aluminum
2. Reflector - High Gloss White Powder Coated Aluminum
3. Arms - (3) #4 Brushed Finish 3/4” Diameter Stainless Steel Bar with Aluminum Universal Mount Hinges
4. Cover - Spun Aluminum with Gasketed Captive Industrex Tempered Glass Shield
5. Reflector - Embossed, Specular Aluminum, High Reflectance
6. Ceramic Metal Halide Lamp - G12 Base (By Others)
7. Triangular Cylinder Housing - .064” Aluminum
8. Ballast HID Electronic -20°F Start (120V - 277V) or Magnetic Core and Coil -20°F Start (347V)
9. Pole Fitter - One Piece Marine Grade Cast Aluminum
10. Pole (Not Included - Order Separately) Ø4.0”

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**CYL-003**

**INDIRECT POST LUMINAIRES**

-4-
**Indirect Streetscape Post Top 7601**

**Symmetric Distribution**

Listed for wet location use to UL and CSA Standards

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**CYL-003 7601 Detailed Product Description**

1. Shade - One Piece Marine Grade Cast Aluminum
2. Reflector - High Gloss White Powder Coated Aluminum
3. Arms - (3) #4 Brushed Finish 3/4" Diameter Stainless Steel Bar with Aluminum Universal Mount Hinges
4. Cover - Spun Aluminum with Gasketed Captive Industrex Tempered Glass Shield
5. Reflector - Embossed, Specular Aluminum, High Reflectance
6. Ceramic Metal Halide Lamp - G12 Base (By Others)
7. Triangular Cylinder Housing - .064" Aluminum
8. Ballast HID Electronic -20°F Start (120V - 277V) or Magnetic Core and Coil -20°F Start (347V)
9. Pole Fitter - One Piece Marine Grade Cast Aluminum
10. Pole (Not Included - Order Separately) Ø4.0"
CYL-003 7600T Detailed Product Description

1 Shade - One Piece Marine Grade Cast Aluminum
2 Reflector - High Gloss White Powder Coated Aluminum
3 Arms - (3) #4 Brushed Finish 3/4" Diameter Stainless Steel Tube with Aluminum Universal Mount Hinges
4 Cover - Spun Aluminum with Gasketed Captive Industrex Tempered Glass Shield
5 Reflector - Embossed, Specular Aluminum, High Reflectance
6 Ceramic Metal Halide Lamp - G12 Base (By Others)
7 Triangular Cylinder Housing - .064" Aluminum
8 Ballast HID Electronic -20°F Start (120V - 277V) or Magnetic Core and Coil -20°F Start (347V)
9 Fitter - One Piece Marine Grade Cast Aluminum
10 Wall Arm, Canopy, Tail Piece Assembly
CYL-003 7600/7601 Series

INSTALLATION INSTRUCTIONS

1. Remove luminaire from shipping carton and lay out parts. (lamp housing assembly, shade assembly, arm assemblies & parts bag)

2. Place shade assembly (top down) on flat surface. Make sure (3) universal joints connections (on shade assembly) are loose enough so that they can be turned by hand for adjustment at step 4.

3. Place housing assembly on flat surface (fitter end down). Thread (3) arm assemblies to housing assembly. Tighten arms with 5/8" wrench at top end of arm assembly. Universal joints at top of arm assembly should still be loose enough to turn by hand.

4. Position housing assembly/arm assembly over shade assembly (see bottom view) Align and connect universal joints (see fig. 2) using cap screws and hex nuts (provided in parts bag) After lamp housing assembly / arm assemblies are joined tighten cap screws holding universal joints to shade assembly.

5. Select appropriate fixture voltage and cap off unused leads. Connect fixture leads to supply leads and secure as required. Position fixture over pole (see exploded view) making sure fitter slides to bottom. Tighten 5 set screws attached to fitter evenly making sure fixture is aligned vertically.

6. To secure luminaire to pole drill remaining hole in fitter (see exploded view) through into pole. Drill 0.250" dia. hole and insert 1/4x1" split pin (provided in parts bag) through fitter and into pole until pin is flush with fitter. Alternately drill 0.201" dia. through into pole and tap 1/4-20, thread 1/4-20x1" set screw (provided in parts bag) through fitter and into pole. (Anti-rotation stop)

7. Remove lens frame from housing assembly by loosening (2) set screws in frame (see exploded view). Insert designated lamp (by others) and re-install lens frame tightening set screw securely.

8. Energize and test as required.
IMPORTANT
Disconnect power before installing fixtures. Read instructions before starting work. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

CYL-003 7600T Series

ARM INSTALLATION INSTRUCTIONS

1 Remove arm assembly from shipping carton and lay out parts.
2 Position mounting plate over junction box, pull supply leads through access hole in wall plate. Install wall plate, independent of junction box, with (4) mounting bolts (not supplied). Mounting bolt size and backing to be determined by installer per installation.
3 Attach arm assembly by connecting (3) leads provided (black white & ground) to supply leads with approved wire connectors and push connections into junction box. Hook arm assembly over wall plate and secure with (2) set screws located at bottom of mounting plate.
4 Remove (3) screws securing wiring access plate and remove access plate. Pull (3) leads (black white & ground) through bottom of access plate opening.
5 Feed (3) leads attached to fixture assembly through arm assembly and out bottom of wiring access hole. Slide fixture assembly over arm assembly and attach per fixture instructions.
6 Connect (3) sets of leads with approved wire connectors and push connections up into arm assembly. Reinstall wiring access plate.
7 Follow fixture installation instructions to complete installation (7600T_pg2).
8 Energize and test as required.

CYL-003

INDIRECT POST LUMINAIRES
**Lighting Details**

**7600**
Ceramic Metal Halide - T6 G-12  
150 / 70 / 39 Watt

Light Distribution is IES Classified as Semi Cut-Off

**7601**
Ceramic Metal Halide - T6 G-12  
150 / 70 / 39 Watt

Light Distribution is IES Classified as Cut-Off
Summary of the Finite Element analysis performed on model 7600 are as follows. The analysis focused on determining the stress distribution in key parts of the design when subjected to wind loads. AAshto Standard LTS-5 for highway signs, luminaires and traffic signs outlined the parameters that were used for determining the applied wind loads. The following factors were applied to determine the wind pressure equation: wind importana factor, height and exposure factor, gust factor and drag coefficients. A maximum wind load of 110 mph was applied at various directions. The resulting stresses were well within the design with close to a 5X safety factor. These results are based on a static analysis.
Paint Finishes

Powder Coat Paint
Eight Standard Colors

The colors shown below are available for all Rebelle products and are suitable for interior and exterior use. Other colors are available to match RAL standards, or to match a specific color sample. Both RAL and color match are premium priced color options.

<table>
<thead>
<tr>
<th>WS</th>
<th>WT</th>
<th>AN</th>
<th>SM</th>
<th>GM</th>
<th>BT</th>
<th>BM</th>
<th>BZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>satin white</td>
<td>textured white</td>
<td>natural aluminium</td>
<td>metallic silver</td>
<td>gunmetal</td>
<td>textured black</td>
<td>black matte</td>
<td>textured bronze</td>
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</table>

Surface Preparation and Application Process

Rebelle’s powder painting process utilizes only polyester powders to ensure durability and permanence in outdoor applications. The process follows a documented quality assurance procedure to ensure the longevity of the finish in the most rigorous climates. All of Rebelle’s luminaires go through a five-stage chemical pre-treatment prior to paint application in order to remove all surface impurities. To allow for a consistent, even coating on parts, all heavy cast aluminum and welded assemblies are shot blasted to near white specifications prior to the five stage pre-treatment process. Following pre-treatment, all parts are coated using an electrostatic process to allow for a consistent, even coating on parts. After coating, parts are then transferred to cure in a high temperature oven. Paint production samples are continually checked to ensure they adhere to strictly controlled quality standards.
Rebelle’s mandate is to manufacture our products while limiting the environmental impact of our operations. Wherever possible, we try to eliminate adding waste to our environment by recycling materials used in our manufacturing process and recycling office materials.

We limit the emissions to the airshed through the use of our powder coat paint process and, where possible, by sourcing components locally. Materials are sourced through local vendors to eliminate the need to transport materials over long distances.

Our fixtures use easily recyclable materials such as glass and aluminum.

Some of our environmentally conscious practices...

- Pallets are recycled or made from reused wood
- Wax free hand towels, solvent free soap and other shop supplies are purchased with a consideration for the environmental impact
- Cardboard is recycled
- Scrap metal is recycled
- Hazardous materials, ie. lamps and computer screens, are disposed of in an environmentally friendly fashion
- Actively involved in the preservation of environmentally sensitive local land areas.

Paint Precautions

All products are painted using a powder coat system that is highly sympathetic to the environment.

- No solvents are introduced at any time during the spray, heating or fusing process which also eliminates the need for pollution control equipment
- Virtually no Hazardous Air Pollutants (HAP) are released into the environment
- Virtually no Volatile Organic Compounds (VOC) are released into the environment
- Powder coatings not applied in the heat adhesion process can be retrieved reducing the waste normally associated with liquid finishing
- Health and safety concerns are minimized
- Powder coating is a durable finish and prevents decay and early replacement
- Powder coating is a clean process, allowing exhaust air from the coating booth to be returned to the plant
- We use a high efficiency cost effective collection system that uses cartridge filters that are cleaned using a reverse pulse of air to minimize powder from escaping into the environment
- Filters are replaced every five years with our new collection system as opposed to every three months with the previous system
- Acidic iron phosphate solution from the pre-treatment process is neutralized prior to disposal
- Chemetall Oakite (pre-treatment chemical vendor) considers environmental issues to be an integral part of its business plan and have been ISO14001 certified since 1997.
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