Guard: In a round shape, this guard is made of bent 6063-T5 aluminum 1/2” (13mm) rods mechanically assembled to the access-mechanism.

Skirt: Spun 1100-0 aluminum, mechanically assembled on the luminaire.

Access-Mechanism: Rotomatic, die-cast A360 aluminum quarter-turn mechanism with constant-pressure spring-loaded points. The mechanism shall offer tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing. A red key on the unit shall indicate point of engagement.

Light Engine: EcoSwap Rotomatic tool-free system composed of 4 main components: Heat Sink / LED lamp / Optical System / Driver
Electrical components are RoHS compliant.

Heat Sink: Made of extruded aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device)

Globe: (PC-C), Made of one-piece seamless injected-moulded clear polycarbonate. The globe is assembled on the access-mechanism.

Lamp: LED Module (Included), LED type Philips Lumileds LUXEON R. Composed of 42 high-performance white LEDs, 65w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan based on TM-21 extrapolation to get results after which 50% of LEDs still emits over 70% (L70) of its original lumen output. Use of metal core board ensures greater heat transfer and longer lifespan of the light engine.

Optical System: (RLE5), IES type V (symmetrical). Composed of high-performance acrylic refractor lenses to achieve...

**Driver:** High power factor of 90%. Electronic driver, operating range 50/60 Hz. **Auto-adjusting to a voltage between 120 and 277 volt AC rated for both application line to line or line to neutral, Class II,** THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Certified in compliance to cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees.

The current supplying the LEDs will be reduced by the driver if the internal driver temperature exceeds 185F(85C), as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction.

**Surge Protector:** Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

**Fitter:** Cast aluminum 356 c/w 4 set screws 3/8-16 UNC. Fits on a 4”(102mm) outside diameter by 4”(102mm) long tenon.

**Luminaire Options:** (SPW), White color for inside of reflector as per old standard.
Description of Components:

**Pole Shaft:** Shall be made from a 4" (102mm) round extruded 6061-T6 aluminum tubing, having a 0.318" (8.1mm) wall thickness, welded to both the bottom and top of the anchor plate.

**Maintenance Opening:** The pole shall have a 2" x 4 1/2" (51mm x 114mm) maintenance opening centered 20" (508mm) from the bottom of the anchor plate, complete with a weatherproof aluminum cover and a copper ground lug.

**Base Cover:** Two piece square base cover made from formed aluminum, mechanically fastened with stainless steel screws.

**Note:** A tenon will be provided when the luminaire or bracket does not fit directly on pole shaft. Tenon not shown on the drawing.

**IMPORTANT:** Philips Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.

**Pole Weight:** 58 lbs (26.4 kg)
Description of Components:

Wiring: Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Hardware: All exposed screws shall be stainless steel with Ceramic primer-seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish: Color to be bronze textured (BRTX) and in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard: The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Quality Control: The manufacturer must provide a written confirmation of its ISO 9001-2008 and ISO 14001-2004 International Quality Standards Certification.

Web site information details: Click on any specific information details you need:

- Paint finish
- Warranties
- ISO 9001-2008 Certification
- ISO 14001-2004 Certification
- cULus Certification
- CSA Pole Certification
## Lamp technical information for Candela 2

LED = Philips Lumileds Luxeon R, CRI = 70, CCT = 4000K (+/- 350K)

LED rated life = 70,000 hrs\(^2\). Driver rated life = 100,000 hrs

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Typical delivered lumens (^2)</th>
<th>Typical lamp wattage (W)</th>
<th>Typical system wattage (^3) (W)</th>
<th>Typical current @ 120 V (A)</th>
<th>Typical current @ 240 V (A)</th>
<th>Typical current @ 277 V (A)</th>
<th>LED current (mA)</th>
<th>HPS equivalent (^4)</th>
<th>Luminaire efficacy Rating (lm/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40W42LED4K-R</td>
<td>3030</td>
<td>40</td>
<td>45</td>
<td>0.48</td>
<td>0.24</td>
<td>0.22</td>
<td>333</td>
<td>70</td>
<td>67</td>
</tr>
<tr>
<td>65W42LED4K-R</td>
<td>4460</td>
<td>65</td>
<td>70</td>
<td>0.72</td>
<td>0.36</td>
<td>0.32</td>
<td>500</td>
<td>100</td>
<td>64</td>
</tr>
</tbody>
</table>

\(^1\) L70 = 70,000 hrs (at ambient temperature= 25°C and forward current = 500 mA)

\(^2\) May vary depending on the optical distribution used. Data provided are for the module alone, outside of a fixture.

\(^3\) System wattage includes the lamp and the LED driver.

\(^4\) Equivalence should always be confirmed by a photometric layout.

*Note*: Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of Philips.