

Project Name

Qty

Type

Catalog / Part Number



B790-5P

7 Year Warranty



Finish



Black  
Textured



White  
Textured



Park  
Green  
Textured



Arch  
Medium  
Bronze  
Textured



Dark  
Bronze  
Textured



Verde  
Green



Swedish  
Iron



Old  
World  
Gray  
Textured



Old  
Iron



Rust



Weathered Cedar  
Brown



Weathered  
Black

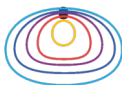


Two  
Tone



Custom  
Match

Distribution Type



Type  
Asymmetric



Type  
Symmetric

Description

The B790 VCOB Manhattan series luminaire is an elegantly styled fixture which consists of a decorative cast aluminum cage and fitter, along with a textured acorn. It features a fully cast aluminum decorative serpentine, petal shaped cage surrounding the acorn.

EPA: 1.16 (#2) | WEIGHT: 25 LBS

Features

Mounting Configuration

- 1W: Wall Mount
- PT: Post Top
- 1A: 1 Arm Mount
- 1APT: 1 Arm & Post Top
- 2A: 2 Arm Mount @ 180°
- 2A90: 2 Arm Mount @ 90°
- 2APT: 2 Arm @ 180° & Post Top
- 3A: 3 Arms @ 120°
- 3A90: 3 Arms @ 90°
- 3APT: 3 Arm @ 120° & Post Top
- 4A: 4 Arms @ 90°
- 4APT: 4 Arm @ 90° & Post Top
- 1AM: 1 Arm Mid-Mount
- 2AM: 2 Arm Mid-Mount @180°
- 450PB: Pier Base

Optional Control

- PEC: Electronic Button Photocontrol (120V-277V)
- PEC4: Electronic Button Photocontrol (480V)

Optional Fuse

- FHD: Double Fuse and Holder

Optional House Side Shield

- HSS: 120° House Side Shield

Optional Fixed Dimming Resistor Board

- FDRB: Fixed Dimming Resistor Board

Physical

Fixture

- B790: Manhattan

Fitter

- 5P: Slip fit 3" OD x 3" tall tenon/pole

|                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>CCT - Color Temp (K)</div> <div><div><div>2,700K</div><div>3,000K</div><div>3,500K</div><div>4,000K</div><div>5,000K</div></div></div> |  | <div>Lens</div> <div>A: Clear Textured Acrylic Acorn<br/>P: Clear Textured Poly Acorn<br/>WA: White Textured Acrylic Acorn<br/>WP: White Textured Poly</div>                                                                                                                                                                                                                             |
| <div>Certifications</div> <div><div><div><div>UL</div><div>US</div><div>LISTED</div></div></div></div>                                      |  | <div>Finish</div> <div>BKT: Black Textured<br/>WHT: White Textured<br/>PGT: Park Green Textured<br/>ABZT: Arch Medium Bronze Textured<br/>DBT: Dark Bronze Textured<br/>VG: Verde Green<br/>SI: Swedish Iron<br/>OWGT: Old World Gray Textured<br/>OI: Old Iron<br/>RT: Rust<br/>WBR: Weathered Brown<br/>CD: Cedar<br/>WBK: Weathered Black<br/>TT: Two Tone<br/>CM: Custom Match</div> |
|                                                                                                                                             |  | <div>Light Source</div> <div><div>LED</div><div>VCOB-4L: 4 LEDs</div></div> <div><div>CCT - Color Temp (K)</div><div>27: 2,700K<br/>30: 3,000K<br/>35: 3,500K<br/>40: 4,000K<br/>50: 5,000K</div></div>                                                                                                                                                                                  |
|                                                                                                                                             |  | <div>Distribution Type</div> <div>TS: Type Symmetric      TA: Type Asymmetric</div>                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                             |  | <div>Electrical and control</div> <div><div>Driver</div><div>MDL02: 120V-277V, 250mA<br/>MDH02: 347V-480V, 250mA<br/>MDL03: 120V-277V, 350mA<br/>MDH03: 347V-480V, 350mA<br/>MDL05: 120V-277V, 500mA<br/>MDH05: 347V-480V, 500mA</div></div>                                                                                                                                             |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Specifications</div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div>Fitter</div>         | <div>The sand cast fitter is a heavy wall, low-copper aluminum 356 alloy for enhanced corrosion resistance and high tensile strength. It will have an 8-1/2" inside diameter opening to attach to the 8" neck of the lens. It includes 4 stainless steel Allen-head set screws for attachment. The fitter will include a one-piece ring bug gasket to resist insect penetration.<br/><br/>The aluminum fitter Includes 4 stainless steel Allen-head set screws for attachment to a pole/tenon, and shall slip fit a 3" OD x 3" tall tenon.</div> |
| <div>Hardware</div>       | <div>Includes Stainless steel hardware. Most finishes will include hardware with a Black Oxide conversion coating. Light finishes will get non-color coated hardware (Whites and Silvers)</div>                                                                                                                                                                                                                                                                                                                                                  |
| <div>Lens</div>           | <div>Clear or White textured acorn offered in dent resistant (DR) acrylic or UV stabilized polycarbonate material. An injection molding process adds a textured surface for glare mitigation.</div>                                                                                                                                                                                                                                                                                                                                              |
| <div>Serviceability</div> | <div>Tool-less access to the driver compartment after the acorn is removed allows for trouble free servicing of the LED Driver and Surge Suppressor.</div>                                                                                                                                                                                                                                                                                                                                                                                       |
| <div>UL Listing</div>     | <div>UL listed per UL1598 and CSA 22.2 No. 250.0 for the United States and Canada. Suitable for Wet Locations.</div>                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electronic Driver                   | The LED driver is UL recognized and will be securely mounted inside the fixture, for optimized performance and longevity. It will be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections for fixture installation and maintenance. It will have DC voltage output and be a constant current design. It runs at 50/60HZ and will have overload, overheat, and short circuit protection. It will be supplied with a supplemental line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It will be a high efficiency driver with a THD less than 20% and a high-power factor greater than .9. It will be dimming capable using a 0-10V signal, consult factory for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Finish                              | Our 6 Stage Polyester Powder coat paint system offers a beautiful high-end finish that holds up to even the most extreme environments. Each part is inspected for quality and consistency before being released for shipment. Our system exceeds AAMA 2604, AAMA 2605, ASTM D523 and ASTM D4214 requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Traditional Finish                  | Traditional paint finishes are available in Sternberg Lighting's Traditional product line. A range of colors help accent the decorative elements on the product. Finishes are available in textured or smooth.<br>Available finishes include: <b>Black, White, Park Green, Architectural Medium Bronze and Dark Bronze</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sternberg Select Finish             | The Sternberg Select antique-inspired palette adds a touch of vintage elegance to modern applications.<br><b>Old World Gray Textured</b> is a 1 part powder coat with metallic flakes.<br><b>Verde Green and Swedish Iron</b> is a 2 part finish that includes a powder coat base coat with a hand applied antique top coat. The top coat is unique to each application and changes over time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Custom Finish                       | Custom finishes are offered to adapt to any application.<br><b>Rust, Weathered Brown and Cedar</b> are special 1 part powder coat finishes with a distinctive look.<br><b>Old Iron and Weathered Black</b> are 2 part finishes that includes a powder coat base coat with a hand applied antique top coat. The top coat is unique to each application and changes over time.<br><b>Two-Tone and Custom Match</b> options are available to blend sternberg product with the site, consult factory for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Warranty                            | 7-year limited warranty. See Website for Terms and Conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| LEDs                                | <p>The LEDs in this system will be mounted vertically. They fully illuminate the luminaire and allow some up-light for vertical illumination.</p> <p>The luminaire shall use high output, high brightness LEDs, consisting of a two piece assembly complete with Chip on Board (COB) LED component and COB holder frame. The LEDs shall be 100% recyclable; not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. Lumen maintenance shall be determined in accordance with IESNA TM-21, based on LED manufacturer LM-80 test data of no less than 6,000 hours and in-situ testing of the luminaire by an NVLAP accredited Energy Efficient Lighting Products lab. The high performance white LED's will have a predicted lumen depreciation of approximately 100,000 hours with greater than 70% of initial output at 25°C. The High Brightness, High Output LEDs shall be 4000K (2700K, 3000K, 3500K or 5000K option) correlated color temperature (CCT) with a 70 (minimum) color rendering index (CRI). Consult factory for custom color CCT. The luminaire shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F).</p> <p><b>CCT Lumen Derate Values from 4,000K</b></p> <p>2,700K (80+ CRI)=<b>.88</b></p> <p>3,000K (70+ CRI)=<b>.97</b></p> <p>3,500K (80+ CRI)=<b>.93</b></p> <p>5,000K (70+ CRI)=<b>1.01</b></p> |
| Optics                              | The luminaire shall be provided with individual, refractor type optics applied to each LED. The luminaire shall provide Type ____ (Symmetric or Asymmetric) light distribution. Testing shall be done in accordance with IESNA LM-79.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Backlight Optical Control           | An optional <b>INTERNAL</b> 120° House Side Shield helps control backlight.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Fixed Dimming Resistor Board (FDRB) | Optional numbered 10-step selector switch allows for fine adjustment of the light levels in the field, repeatable from location to location. Offers dimming from 25% to 100% of the original output. Enclosure is composite material, sealed to protect components for the life of the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Photocontrols                       | <b>Button Photocell:</b> The photocontrol shall be mounted on the fixture and pre-wired to driver. The electronic button type photocontrol is instant on and will turn on at 1.5 footcandles and will turn off at 2-3 footcandles. See pole spec sheet for pole mounted version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Lumen Chart(s)

| Model #      | TA<br>DELIVERED<br>LUMENS | BUG    | EFFICACY<br>(LPW) | TS<br>DELIVERED<br>LUMENS | BUG    | EFFICACY<br>(LPW) | WATTAGE |
|--------------|---------------------------|--------|-------------------|---------------------------|--------|-------------------|---------|
| 4L40T_-MDL05 | 6740                      | B2U4G3 | 89.9              | 7110                      | B3U4G3 | 94.8              | 75      |
| 4L30T_-MDL05 | 6530                      | B2U4G3 | 87.1              | 6885                      | B3U4G3 | 91.8              | 75      |
| 4L27T_-MDL05 | 5935                      | B2U4G3 | 79.1              | 6260                      | B3U4G3 | 83.5              | 75      |
| 4L40T_-MDL03 | 5310                      | B2U4G3 | 94.8              | 5580                      | B3U4G2 | 99.6              | 56      |
| 4L30T_-MDL03 | 5145                      | B2U4G3 | 91.9              | 5405                      | B3U4G2 | 96.5              | 56      |
| 4L27T_-MDL03 | 4675                      | B2U4G3 | 83.5              | 4915                      | B3U4G2 | 87.8              | 56      |
| 4L40T_-MDL02 | 3930                      | B1U3G2 | 98.3              | 4140                      | B2U4G2 | 103.5             | 40      |
| 4L30T_-MDL02 | 3805                      | B1U3G2 | 95.1              | 4010                      | B2U4G2 | 100.3             | 40      |
| 4L27T_-MDL02 | 3460                      | B1U3G2 | 86.5              | 3645                      | B2U4G2 | 91.1              | 40      |

Dimensions



Manhattan  
(B790-5P)



Pier Base  
(450PB-B790-5P)

Options



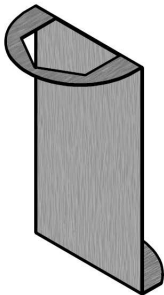
Button Photocell (PEC)



Fixed Dimming Resistor Board (FDRB)



Double Fuse Holder & (2) 3A Fuses  
(FHD)



House Side Shield (HSS)

How to Order

| Mounting Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fixture                  | Fitter                                           | LED                      | CCT - Color Temp (K)                                                                                                            | Distribution Type                                               | Driver                                                                                                                                                                                                                                   | Lens                                                                                                                                                                           | Optional Control                                                                                                     | Optional Fuse <sup>(2)</sup>         | Optional House Side Shield <sup>(3)</sup> | Optional Fixed Dimming Resistor Board       | Finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1W</b><br>Wall Mount<br><br><b>PT</b><br>Post Top<br><br><b>1A</b><br>1 Arm Mount<br><br><b>1APT</b><br>1 Arm & Post Top<br><br><b>2A</b><br>2 Arm Mount @ 180°<br><br><b>2A90</b><br>2 Arm Mount @ 90°<br><br><b>2APT</b><br>2 Arm @ 180° & Post Top<br><br><b>3A</b><br>3 Arms @ 120° <sup>(1)</sup><br><br><b>3A90</b><br>3 Arms @ 90°<br><br><b>3APT</b><br>3 Arm @ 120° & Post Top <sup>(1)</sup><br><br><b>4A</b><br>4 Arms @ 90°<br><br><b>4APT</b><br>4 Arm @ 90° & Post Top<br><br><b>1AM</b><br>1 Arm Mid-Mount<br><br><b>2AM</b><br>2 Arm Mid-Mount @ 180°<br><br><b>450PB</b><br>Pier Base | <b>B790</b><br>Manhattan | <b>5P</b><br>Slip fit 3" OD x 3" tall tenon/pole | <b>VCOB-4L</b><br>4 LEDs | <b>27</b><br>2,700K<br><br><b>30</b><br>3,000K<br><br><b>35</b><br>3,500K<br><br><b>40</b><br>4,000K<br><br><b>50</b><br>5,000K | <b>TS</b><br>Type Symmetric<br><br><b>TA</b><br>Type Asymmetric | <b>MDL02</b><br>120V-277V, 250mA<br><br><b>MDH02</b><br>347V-480V, 250mA<br><br><b>MDL03</b><br>120V-277V, 350mA<br><br><b>MDH03</b><br>347V-480V, 350mA<br><br><b>MDL05</b><br>120V-277V, 500mA<br><br><b>MDH05</b><br>347V-480V, 500mA | <b>A</b><br>Clear Textured Acrylic Acorn<br><br><b>P</b><br>Clear Textured Poly Acorn<br><br><b>WA</b><br>White Textured Acrylic Acorn<br><br><b>WP</b><br>White Textured Poly | <b>PEC</b><br>Electronic Button Photocontrol (120V-277V)<br><br><b>PEC4</b><br>Electronic Button Photocontrol (480V) | <b>FHD</b><br>Double Fuse and Holder | <b>HSS</b><br>120° House Side Shield      | <b>FDRB</b><br>Fixed Dimming Resistor Board | <b>BKT</b><br>Black Textured <sup>(4)</sup><br><br><b>WHT</b><br>White Textured <sup>(4)</sup><br><br><b>PGT</b><br>Park Green Textured <sup>(4)</sup><br><br><b>ABZT</b><br>Arch Medium Bronze Textured <sup>(4)</sup><br><br><b>DBT</b><br>Dark Bronze Textured <sup>(4)</sup><br><br><b>VG</b><br>Verde Green<br><br><b>SI</b><br>Swedish Iron<br><br><b>OWGT</b><br>Old World Gray Textured<br><br><b>OI</b><br>Old Iron <sup>(5)</sup><br><br><b>RT</b><br>Rust <sup>(5)</sup><br><br><b>WBR</b><br>Weathered Brown <sup>(5)</sup><br><br><b>CD</b><br>Cedar <sup>(5)</sup><br><br><b>WBK</b><br>Weathered Black <sup>(5)</sup><br><br><b>TT</b><br>Two Tone <sup>(5)</sup><br><br><b>CM</b><br>Custom Match <sup>(5)</sup> |

- Notes:
1. Only available with a round profile pole.

2. Ships loose for installation in base.

3. Not for use with TS optic.

4. Smooth finishes are available upon request.

5. Custom colors require upcharge.