

SOLID STATE AREA LIGHTING

BEVERLY LANTERN - PLED

PROJECT NAME: _____

FIXTURE TYPE: _____

FEATURES

Luminaire

Durable corrosion resistant cast aluminum construction Top and Fitter. Traditional styling of the Housing features decorative accents and Flutes with open Struts.

PLED™ Optics

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments and meet an IP66 rating.

LED Emitters

High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED Driver

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.)

True Amber LED's

TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

Finish

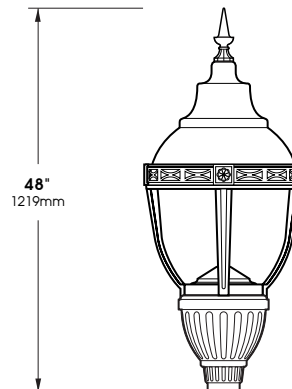
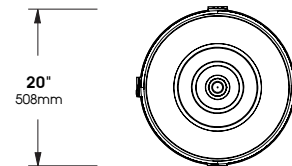
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



LBEV

(Shown with LBEV-UA Fitter and Ornamental Finial)

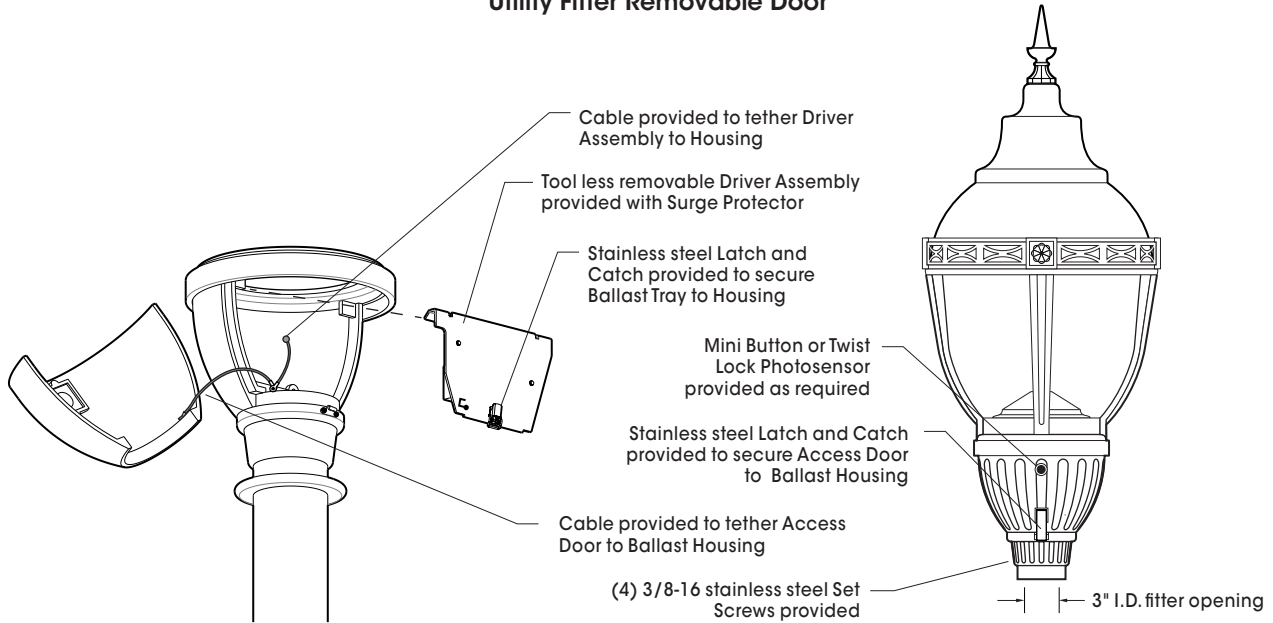
Patent pending



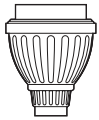
LBEV SERIES - PLED

SPECIFICATIONS

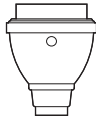
Utility Fitter Removable Door



Optional Fitters



LBEV-UA*
(standard)



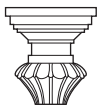
LBEV-UB*



LBEV-YD*



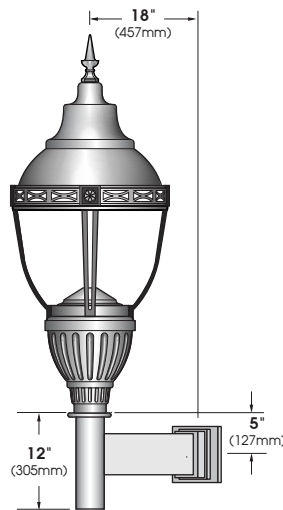
LBEV-YE*



LBEV-YG

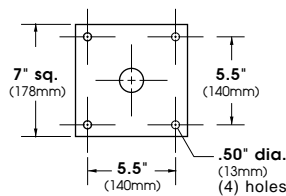
* Available with mini button photocells
See Options

Wall Mount

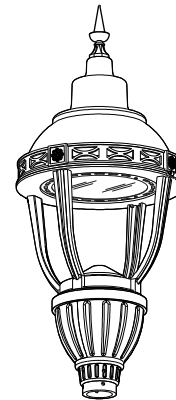


Extruded aluminum arm and cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

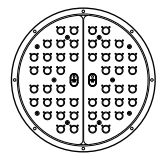
Wall Plate



PLED™ Module



LBEV E.P.A. = 1.70
Available in:
48 LED Module Max




















48 LED Module

LBEV SERIES - PLED

ORDERING INFORMATION

Spec/Order Example: LBEV/PLED-II-FR/36LED-875mA/WW/FM/RAL-7004-T

| Luminaire | Optics | LED Mode | | | Voltage | Mounting | Finish | Options |
|---|--|---|--|--|--|--|--|---|
| Luminaire | Optics | LED | | | Voltage | Mounting | Finish | Options |
| <input type="checkbox"/> LBEV-UA-PLED* <input type="checkbox"/> LBEV-UB-PLED* <input type="checkbox"/> LBEV-YD-PLED* <input type="checkbox"/> LBEV-YE-PLED* <input type="checkbox"/> LBEV-YG-PLED | <p>PLED* Distribution Type</p> <input type="checkbox"/> Type II PLED-II  | <input type="checkbox"/> 48LED ¹ <input type="checkbox"/> 36LED <input type="checkbox"/> 20LED | <input type="checkbox"/> 1050mA ² <input type="checkbox"/> 875mA ² <input type="checkbox"/> 700mA ² <input type="checkbox"/> 525mA <input type="checkbox"/> 350mA | <input type="checkbox"/> NW (4000K)* *Standard <input type="checkbox"/> CW (5000K) <input type="checkbox"/> WW (3000K) Other LED Colors Available Consult Factory Amber ³ <input type="checkbox"/> True Amber ⁴ TRA | <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 | <p>Post Top</p> <input type="checkbox"/> PT  Pole Tenon <p>Arm Mount</p> <input type="checkbox"/> 1  <input type="checkbox"/> 2-180  <input type="checkbox"/> 2-90  <input type="checkbox"/> 3-90  <input type="checkbox"/> 3-120  <input type="checkbox"/> 4-90  <p>Wallmount</p> <input type="checkbox"/> WM  | <p>Standard Textured Finish</p> <input type="checkbox"/> Black RAL-9005-T <input type="checkbox"/> White RAL-9003-T <input type="checkbox"/> Grey RAL-7004-T <input type="checkbox"/> Dark Bronze RAL-8019-T <input type="checkbox"/> Green RAL-6005-T For smooth finish replace suffix "T" with suffix "S" (Example: RAL-9500-S) Consult factor for custom colors | <input type="checkbox"/> Brass Finial BF <input type="checkbox"/> Ornamental Finial OF <input type="checkbox"/> Internal House Side Shield inc. LED Count (Example: HS-PLED/48) HS-PLED <input type="checkbox"/> Twist Lock Receptable Only TPR <input type="checkbox"/> 7-Pin Twist Lock Receptable Only TPR7 <input type="checkbox"/> High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) HLSW <input type="checkbox"/> Photo Cell + Voltage (Example: PC120V) PC+V <input type="checkbox"/> Single Fuse (120V, 277V) SF <input type="checkbox"/> Double Fuse (208V, 240V) DF <input type="checkbox"/> Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75ic) MS-F311 |
| <p>*Available with Mini Burton Photocells See Options</p> | <input type="checkbox"/> Type II Front Row PLED-II-FR  <input type="checkbox"/> Type III Med. PLED-III-M  <input type="checkbox"/> Type III Wide PLED-III-W  <input type="checkbox"/> Type IV PLED-IV  <input type="checkbox"/> Type IV PLED-IV-FT  <input type="checkbox"/> Type V Narrow PLED-V-SQ-N  <input type="checkbox"/> Type V Med. PLED-V-SQ-M  <input type="checkbox"/> Type V Wide PLED-V-SQ-W  | <p>NOTES:</p> <p>1 - 875mA maximum</p> <p>2 - 700mA, 875mA and 1050mA not for use with TRA LED's</p> <p>3 - Narrow band Ambers have no Definable CCT equivalent</p> <p>4 - Available in 350mA & 525mA drive currents only</p> | | | | | | |

LED/ELECTRICAL GUIDE

| LED Count | Applied B-U-G Rating | Source | Initial Lumens - 4000K CCT | Initial Lumens - 3000K CCT | Initial Lumens - 5000K CCT | L70 greater than (HR) | Starting Temp. | System Watts | Volts | Max Input Amps |
|-------------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|-------|----------------|
| 20 | III B1-U0-G1 VSQ B2-U0-G1 | 20 PLED® Optical Module - 350mA | 2256 - | 2143 - | 2368 - | 90,000+ | -40°C | 22 | 120 | .18 |
| | | | 2636 | 2505 | 2768 | | | | 277 | .08 |
| | | | | | | | | | 347 | .06 |
| 20 | III B1-U0-G1 VSQ B2-U0-G1 | 20 PLED® Optical Module - 525mA | 3742 - | 3044 - | 3364 - | 90,000+ | -40°C | 33 | 120 | .28 |
| | | | 3204 | 3556 | 3929 | | | | 277 | .12 |
| | | | | | | | | | 347 | .10 |
| 20 | III B1-U0-G1 VSQ B3-U0-G1 | 20 PLED® Optical Module - 700mA | 4015 - | 3815 - | 4215 - | 90,000+ | -40°C | 44 | 120 | .37 |
| | | | 4692 | 4458 | 4926 | | | | 277 | .16 |
| | | | | | | | | | 347 | .13 |
| 20 | III B1-U0-G1 VSQ B3-U0-G1 | 20 PLED® Optical Module - 875mA | 4840 - | 4599 - | 5082 - | 90,000+ | -40°C | 55 | 120 | .46 |
| | | | 5657 | 5374 | 5939 | | | | 277 | .20 |
| | | | | | | | | | 347 | .16 |
| 20 | III B2-U0-G2 VSQ B3-U0-G1 | 20 PLED® Optical Module - 1050mA | 5618 - | 5338 - | 5898 - | 90,000+ | -40°C | 66 | 120 | .55 |
| | | | 6563 | 6325 | 6891 | | | | 277 | .24 |
| | | | | | | | | | 347 | .19 |
| 36 | III B1-U0-G1 VSQ B3-U0-G1 | 36 PLED® Optical Module - 350mA | 4061 - | 3858 - | 4263 - | 90,000+ | -40°C | 39.6 | 120 | .33 |
| | | | 4744 | 4508 | 4981 | | | | 277 | .14 |
| | | | | | | | | | 347 | .11 |
| 36 | III B2-U0-G2 VSQ B3-U0-G2 | 36 PLED® Optical Module - 525mA | 5766 - | 5478 - | 6053 - | 90,000+ | -40°C | 59.4 | 120 | .50 |
| | | | 6736 | 6400 | 7072 | | | | 277 | .21 |
| | | | | | | | | | 347 | .17 |
| 36 | III B2-U0-G2 VSQ B3-U0-G2 | 36 PLED® Optical Module - 700mA | 7228 - | 6867 - | 7588 - | 90,000+ | -40°C | 79.2 | 120 | .66 |
| | | | 8444 | 8022 | 8865 | | | | 277 | .29 |
| | | | | | | | | | 347 | .23 |
| 36 | III B2-U0-G2 VSQ B3-U0-G2 | 36 PLED® Optical Module - 875mA | 8713 - | 9672 - | 9147 - | 90,000+ | -40°C | 99 | 120 | .83 |
| | | | 10181 | 8278 | 10689 | | | | 277 | .36 |
| | | | | | | | | | 347 | .29 |
| 36 | III B2-U0-G2 VSQ B4-U0-G2 | 36 PLED® Optical Module - 1050mA | 10111 - | 9606 - | 10615 - | 90,000+ | -40°C | 118.8 | 120 | .99 |
| | | | 11813 | 11223 | 12402 | | | | 277 | .43 |
| | | | | | | | | | 347 | .34 |
| 48 | III B2-U0-G2 VSQ B3-U0-G1 | 48 PLED® Optical Module - 350mA | 5414 - | 5144 - | 5685 - | 90,000+ | -40°C | 52.8 | 120 | .44 |
| | | | 6325 | 6009 | 6642 | | | | 277 | .19 |
| | | | | | | | | | 347 | .15 |
| 48 | III B2-U0-G2 VSQ B3-U0-G2 | 48 PLED® Optical Module - 525mA | 7688 - | 7304 - | 8071 - | 90,000+ | -40°C | 79.2 | 120 | .66 |
| | | | 8981 | 8533 | 9430 | | | | 277 | .29 |
| | | | | | | | | | 347 | .23 |
| 48 | III B2-U0-G2 VSQ B4-U0-G2 | 48 PLED® Optical Module - 700mA | 9637 - | 9156 - | 10117 - | 90,000+ | -40°C | 105.6 | 120 | .88 |
| | | | 11259 | 10697 | 11821 | | | | 277 | .38 |
| | | | | | | | | | 347 | .30 |
| 48 | III B2-U0-G2 VSQ B4-U0-G2 | 48 PLED® Optical Module - 875mA | 11619 - | 11039 - | 12198 - | 90,000+ | -40°C | 132 | 120 | 1.10 |
| | | | 13575 | 12897 | 14252 | | | | 277 | .48 |
| | | | | | | | | | 347 | .38 |
| True Amber LED - 590nm | | | | | | | | | | |
| 20 | III B0-U0-G0 VSQ B1-U0-G0 | 20 PLED® Optical Module - 350mA | 676 - | | | 90,000+ | -40°C | 17 | 120 | .14 |
| | | | 790 | | | | | | 277 | .06 |
| | | | | | | | | | 347 | .05 |
| 20 | III B0-U0-G0 VSQ B1-U0-G0 | 20 PLED® Optical Module - 525mA | 898 - | | | 90,000+ | -40°C | 25.4 | 120 | .21 |
| | | | 1048 | | | | | | 277 | .09 |
| | | | | | | | | | 347 | .07 |
| 36 | III B1-U0-G0 VSQ B1-U0-G0 | 36 PLED® Optical Module - 350mA | 1220 - | | | 90,000+ | -40°C | 30.5 | 120 | .25 |
| | | | 1424 | | | | | | 277 | .11 |
| | | | | | | | | | 347 | .09 |
| 36 | III B1-U0-G1 VSQ B1-U0-G0 | 36 PLED® Optical Module - 525mA | 1887 - | | | 90,000+ | -40°C | 45.7 | 120 | .38 |
| | | | 1615 | | | | | | 277 | .16 |
| | | | | | | | | | 347 | .13 |
| 48 | III B1-U0-G1 VSQ B1-U0-G0 | 48 PLED® Optical Module - 350mA | 1625 - | | | 90,000+ | -40°C | 40.7 | 120 | .34 |
| | | | 1898 | | | | | | 277 | .15 |
| | | | | | | | | | 347 | .12 |
| 48 | III B1-U0-G1 VSQ B2-U0-G1 | 48 PLED® Optical Module - 525mA | 2152 - | | | 90,000+ | -40°C | 61 | 120 | .51 |
| | | | 2515 | | | | | | 277 | .22 |
| | | | | | | | | | 347 | .18 |

- 1) Max Input Amps is the highest of starting, operating, or open circuit currents
- 2) System Watts includes the source watts and all driver components.
- 3) Lumen values for LED Modules vary according to the distribution type
- 4) Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 20KV surge suppressors.
- 5) L70(10K) – TM-21 6x rule applied

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

SOLID STATE AREA LIGHTING

BEVERLY LANTERN - VLED

PROJECT NAME: _____

FIXTURE TYPE: _____

FEATURES

Luminaire

Durable corrosion resistant cast aluminum construction Top and Fitter. Traditional styling of the Housing features decorative accents and Flutes with open Struts.

VLED® Optics

Low copper (A356 Alloy; <0.2% Cu) cast aluminum housing. Integrated clear tempered glass lens sealed with a continuous silicone gasket protects emitters (LED's), Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism is secured to an optical plate made of matte black anodized aluminum has indexing pins for precise aiming. The optical plate locates every Reflector-Prism over an emitter, are inserted to the optical plate from above and are secured with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord.

LED Emitters

High output LED's are utilized with drive currents ranging from 350mA to 700mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED Driver

Constant current programmable electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.)

True Amber LED's

TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

Finish

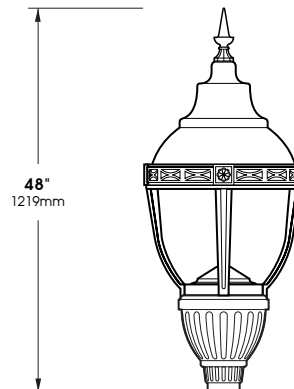
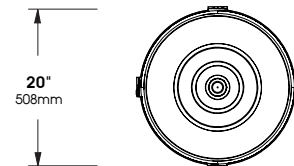
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



LBEV

(Shown with LBEV-UA Fitter and Ornamental Finial)

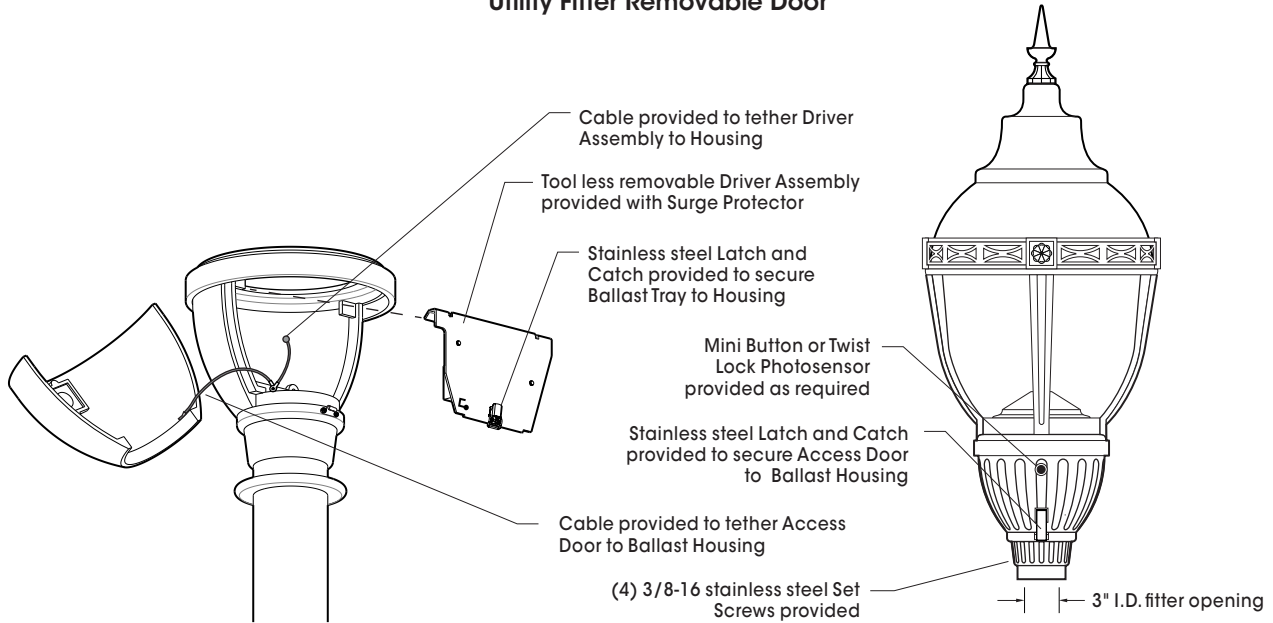
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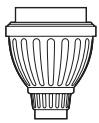
LBEV SERIES - VLED

SPECIFICATIONS

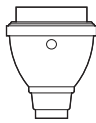
Utility Fitter Removable Door



Optional Fitters



LBEV-UA*
(standard)



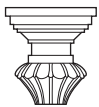
LBEV-UB*



LBEV-YD*



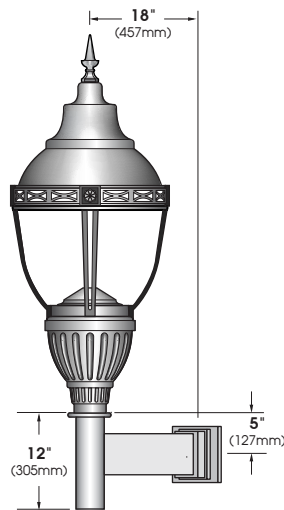
LBEV-YE*



LBEV-YG

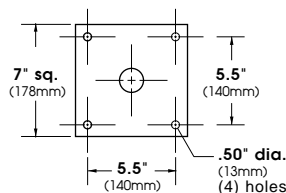
* Available with mini button photocells
See Options

Wall Mount

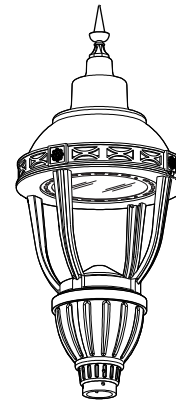


Extruded aluminum arm and cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

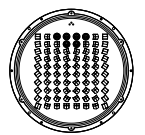
Wall Plate



VLED[®] Module



LBEV E.P.A. = 1.70
Available in:
80 LED Module Max















80 LED Module

LBEV SERIES - VLED

ORDERING INFORMATION

Spec/Order Example: LBEV/VLED-III-W/80LED-525mA/CW/240/1/RAL-9003-T

| Luminaire | Optics | LED Mode | | | Voltage | Mounting | Finish | Options |
|---------------------------------------|---|--------------------------------|---|---|------------------------------|---|---|---|
| Luminaire | Optics | LED | | | Voltage | Mounting | Finish | Options |
| | VLED® IES Distribution Type | # of LEDs | Drive Current | Color Temp - CCT | | Post Top | Standard Textured Finish | |
| <input type="checkbox"/> LBEV-UA-VLED | <input type="checkbox"/> Type II VLED-II  | <input type="checkbox"/> 80LED | <input type="checkbox"/> 700mA ¹ | <input type="checkbox"/> NW (4000K)* *Standard | <input type="checkbox"/> 120 | <input type="checkbox"/> PT  Pole Tenon | <input type="checkbox"/> Black RAL-9005-T | <input type="checkbox"/> Brass Finial BF |
| <input type="checkbox"/> LBEV-UB-VLED | <input type="checkbox"/> Type III VLED-III  | <input type="checkbox"/> 64LED | <input type="checkbox"/> 525mA | <input type="checkbox"/> CW (5000K) | <input type="checkbox"/> 208 | | <input type="checkbox"/> White RAL-9003-T | <input type="checkbox"/> Ornamental Finial OF |
| <input type="checkbox"/> LBEV-YD-VLED | <input type="checkbox"/> Type IV VLED-IV  | <input type="checkbox"/> 48LED | <input type="checkbox"/> 350mA | <input type="checkbox"/> WW (3000K) Other LED Colors Available Consult Factory | <input type="checkbox"/> 240 | Arm Mount | <input type="checkbox"/> Grey RAL-7004-T | <input type="checkbox"/> Internal House Side Shields inc. LED Count (Example: HS-VLED/48) HS-VLED |
| <input type="checkbox"/> LBEV-YE-VLED | <input type="checkbox"/> Type V Med. VLED-V-SQ  | | | <input type="checkbox"/> Amber ² <input type="checkbox"/> True Amber TRA | <input type="checkbox"/> 277 | <input type="checkbox"/> 1  | <input type="checkbox"/> Dark Bronze RAL-8019-T | <input type="checkbox"/> Twist Lock Receptable Only TPR |
| <input type="checkbox"/> LBEV-YG-VLED | | | | | <input type="checkbox"/> 347 | <input type="checkbox"/> 2-180  | <input type="checkbox"/> Green RAL-6005-T | <input type="checkbox"/> 7-Pin Twist Lock Receptable Only TPR7 |
| | | | | | <input type="checkbox"/> 480 | <input type="checkbox"/> 2-90  | | <input type="checkbox"/> High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) HLSW |
| | | | | | | <input type="checkbox"/> 3-90  | | <input type="checkbox"/> Photo Cell + Voltage (Example: PC120V) PC+V |
| | | | | | | <input type="checkbox"/> 3-120  | | <input type="checkbox"/> Single Fuse (120V, 277V) SF |
| | | | | | | <input type="checkbox"/> 4-90  | For smooth finish replace suffix "T" with suffix "S" (Example: RAL-9500-S) | <input type="checkbox"/> Double Fuse (208V, 240V) DF |
| | | | | | | Wallmount | Consult factor for custom colors | <input type="checkbox"/> Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75/c) MS-F311 |
| | | | | | | <input type="checkbox"/> WM  | | Contact factory for step dim motion sensor. (programmed 50/100) |
| | | | | | | See USALTG.COM for additional arm styles | | |

*Available with Mini Button Photocells
See Options

NOTES:
1 - 64LED and 48LED only
2 - Narrow band Ambers have no definable CCT equivalent

LBEV SERIES - VLED

LED/ Electrical Guide

| LED Count | Source Type | Source | Initial Lumens - 4000K CCT | Initial Lumens - 3000K CCT | Initial Lumens - 5000K CCT | L70 greater than (HR) | Starting Temp. | System Watts | Volts | Max Input Amps |
|-----------|-------------|---------------------------------|----------------------------|----------------------------|----------------------------|-----------------------|----------------|--------------|-------|----------------|
| 48 | White LED | 48 VLED® Optical Module - 350mA | 4241 - | 3731 - | 4337 - | 60,000+ | -20°F | 55 | 120 | 0.46 |
| | | | 4760 | 4187 | 4868 | | | | 277 | 0.20 |
| | | | | | | | | | 347 | 0.16 |
| 48 | White LED | 48 VLED® Optical Module - 525mA | 5871 - | 5152 - | 6009 - | 60,000+ | -20°F | 79 | 120 | 0.66 |
| | | | 6557 | 5755 | 6711 | | | | 277 | 0.29 |
| | | | | | | | | | 347 | 0.23 |
| 48 | White LED | 48 VLED® Optical Module - 700mA | 7515 - | 6579 - | 7696 - | 60,000+ | -20°F | 109 | 120 | 0.91 |
| | | | 8131 | 7119 | 8327 | | | | 277 | 0.40 |
| | | | | | | | | | 347 | 0.32 |
| 64 | White LED | 64 VLED® Optical Module - 350mA | 5255 - | 4623 - | 5373 - | 60,000+ | -20°F | 70 | 120 | 0.59 |
| | | | 5898 | 5189 | 6031 | | | | 277 | 0.26 |
| | | | | | | | | | 347 | 0.21 |
| 64 | White LED | 64 VLED® Optical Module - 525mA | 7393 - | 6488 - | 7566 - | 60,000+ | -20°F | 108 | 120 | 0.90 |
| | | | 8257 | 7246 | 8451 | | | | 277 | 0.39 |
| | | | | | | | | | 347 | 0.32 |
| 64 | White LED | 64 VLED® Optical Module - 700mA | 9927 - | 8691 - | 10166 - | 60,000+ | -20°F | 134 | 120 | 1.12 |
| | | | 10405 | 9110 | 10655 | | | | 277 | 0.49 |
| | | | | | | | | | 347 | 0.39 |
| 80 | White LED | 80 VLED® Optical Module - 350mA | 7131 - | 6273 - | 7292 - | 60,000+ | -20°F | 85 | 120 | 0.77 |
| | | | 7452 | 6556 | 7620 | | | | 277 | 0.31 |
| | | | | | | | | | 347 | 0.25 |
| 80 | White LED | 80 VLED® Optical Module - 525mA | 9994 - | 8770 - | 10228 - | 60,000+ | -20°F | 130 | 120 | 1.09 |
| | | | 10444 | 9166 | 10689 | | | | 277 | 0.47 |
| | | | | | | | | | 347 | 0.38 |