

SOLID STATE AREA LIGHTING

BEVERLY LANTERN - PLED

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

LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard 2700K & 3000K, 4000K, or 5000K. All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

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.)

Finish

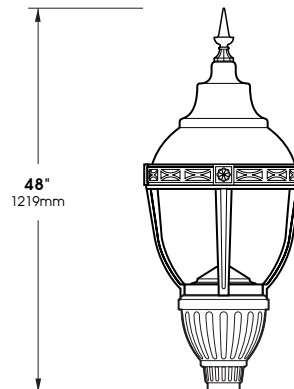
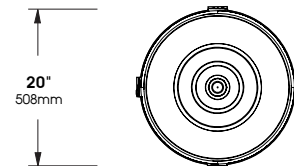
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.



LBEV

(Shown with LBEV-UA Fitter and Ornamental Finial)

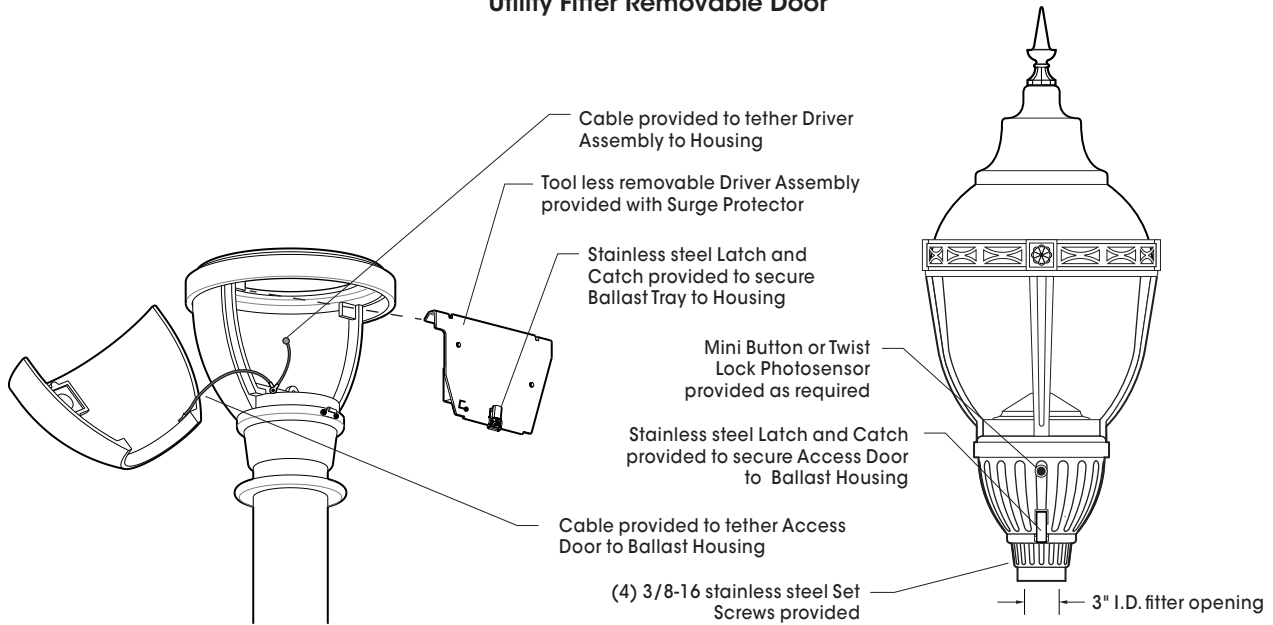
Patent pending



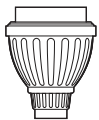
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SPECIFICATIONS

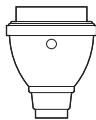
Utility Fitter Removable Door



Optional Fitters



LBEV-UA*
(standard)



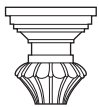
LBEV-UB*



LBEV-YD*



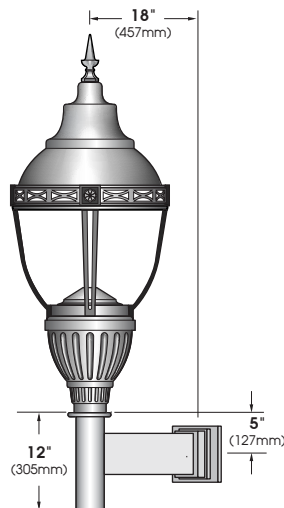
LBEV-YE*



LBEV-YG

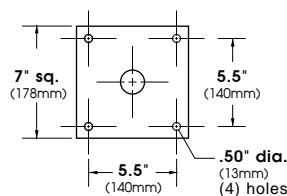
* Available with mini button photocells
See Options

Wall Mount

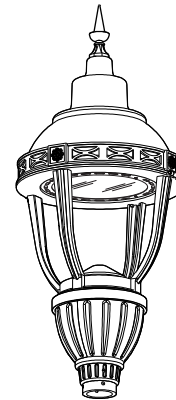


Extruded aluminum arm and cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

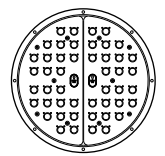
Wall Plate



PLED™ Module



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



48 LED Module

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

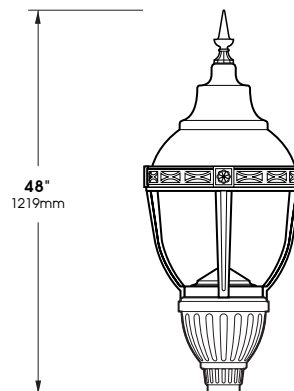
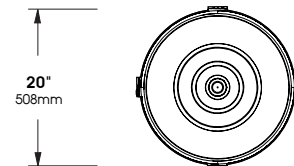
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



LBEV

(Shown with LBEV-UA Fitter and Ornamental Finial)

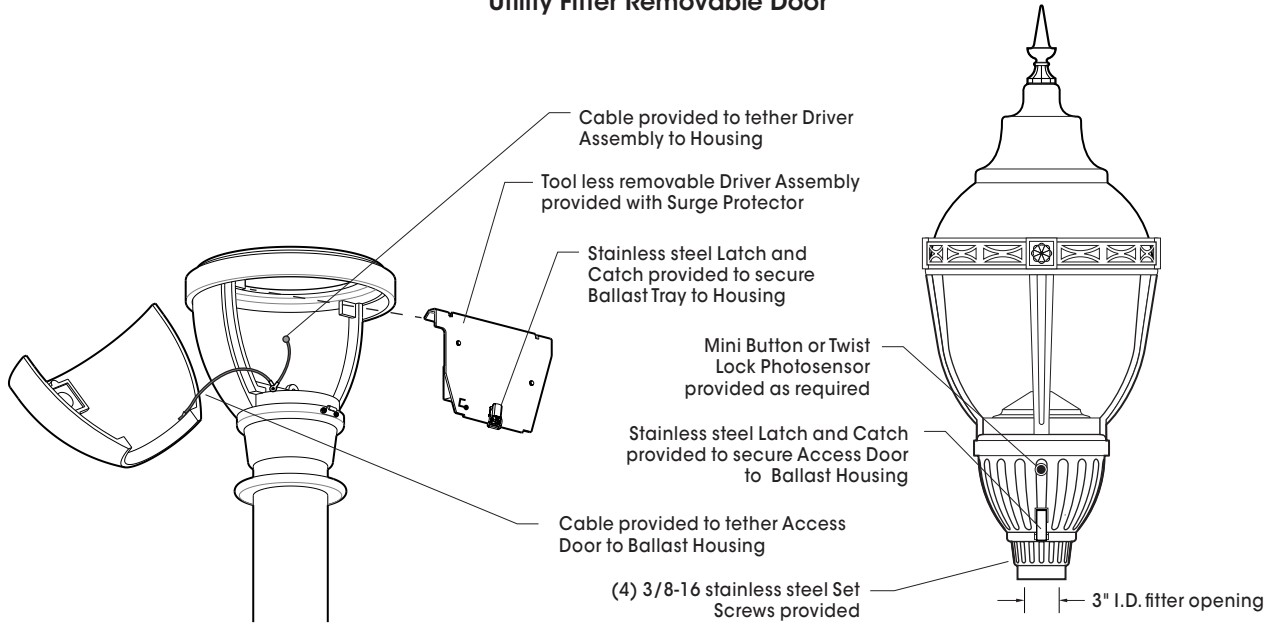
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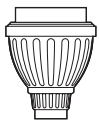
LBEV SERIES - VLED

SPECIFICATIONS

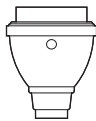
Utility Fitter Removable Door



Optional Fitters



LBEV-UA*
(standard)



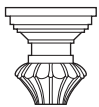
LBEV-UB*



LBEV-YD*



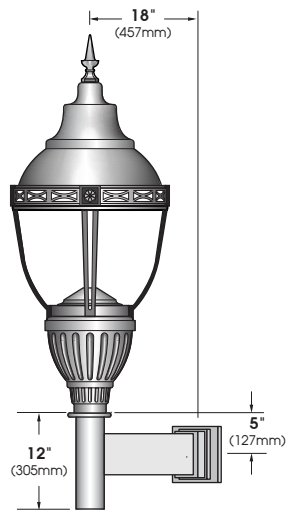
LBEV-YE*



LBEV-YG

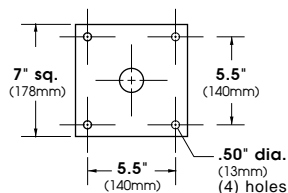
* Available with mini button photocells
See Options

Wall Mount

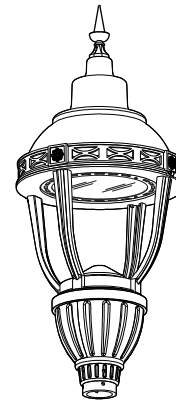


Extruded aluminum arm and cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

Wall Plate



VLED Module



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



80 LED Module

LBEV SERIES - VLED

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