

OVERVIEW

The BVT is a surface-mounted LED luminaire, which is designed to prevent the intrusion of moisture and dust. The BVT provides general ambient lighting in commercial and industrial settings, and is the perfect choice for both new construction and retrofits. This high-efficacy luminaire provides long-life and uniform illumination, as well as standard 0-10vdc dimming capability. The optional factory-installed Signtex Emergency Lighting Control option ensures full emergency code compliance at the lowest possible cost.

PROJECT:

TYPE:

CATALOG #:

SPECIAL FEATURES

- **Emergency lighting from 1,300 Lm to 1,820 Lm with adjustable Emergency Lighting Control (ELC), powered from a Signtex low-voltage central battery system. See Page 3 for details.**
- Available with factory-installed UL Listed Emergency Lighting Control (ELC), for connection to a Signtex central battery, DC emergency power system.
- Available in 3500k (warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide at least 89,000 hours of operation with at least 70% of initial lumen output (L₇₀).**
- BVT-35 provides 4,244 luminaire lumens (125 LPW) at 3500k; 4,550 luminaire lumens (130 LPW) at 4000k; and 4,585 luminaire lumens (131 LPW) at 5000k.*
- BVT-40 provides 4,793 luminaire lumens (120 LPW) at 3500k; 5,200 luminaire lumens (130 LPW) at 4000k; and 5,240 luminaire lumens (131 LPW) at 5000k.*
- BVT-52 provides 6,469 luminaire lumens (127 LPW) at 3500k; 6,760 luminaire lumens (130 LPW) at 4000k; and 6,812 luminaire lumens (131 LPW) at 5000k.*
- Uniform illumination with no visible LED pixelation.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming capability is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Polycarbonate housing and lens.
- Stainless steel mounting bracket and lens clips are standard.
- Heavy duty wall-mount bracket provides for secure wall and ceiling installation.
- Easy installation in new construction or retrofit.



WARRANTIES & LISTINGS

- cULus approved for wet locations (-20° C to 50° C / -4° F to 122° F).
- IP65 rated for ingress protection.
- DLC premium approved.
- Complies with FCC Part 15, Class A.
- Complies with IEEE C.62.41-1991, input transient protection (2.5kV).
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Not suitable for use in car wash applications.
- View Signtex [Warranty](#) for further details



FIXTURE ORDERING INFORMATION EXAMPLE: BVT-35-40L-MV-4K-ELCP14P2

BVT

SERIES	POWER WATTS	LUMENS ²	VOLTAGE	COLOR TEMPERATURE	OPTIONS ¹
BVT	35 40 52	40L 4000Lm 50L 5000Lm 67L 6700Lm	MV 120-277VAC	4K 4000K 5K 5000K	ELCPXX Emergency Lighting Control ³ EMXX/ECXX Emergency Driver ³ **XX"= VARIES WITH FIXTURE SIZE AND POWER. SEE OPTIONS TABLE FOR COMPLETE PART NUMBER.

¹ See Option Detail Tables

² Average values. Contact factory for specific value.

³ MV Voltage Only

ELECTRICAL DATA

MODEL	COLOR TEMP.	CRI ¹	LUMINAIRE LUMENS	LUMINAIRE WATTS	LUMENS/ WATT	INPUT VOLTAGE ²	INPUT CURRENT (A)			POWER FACTOR	THD ³	L ₇₀ HOURS ⁴
							120V	240V	277V			
BVT-35-40L-MV-35K	3500K	>80	4,224	35	125	120-277	0.28	0.14	0.12	>90%	<20%	105,00
BVT-35-40L-MV-4K	4000K	>80	4,550	35	130	120-277	0.29	0.15	0.13	>90%	<20%	105,00
BVT-35-40L-MV-5K	5000K	>80	4,585	35	131	120-277	0.29	0.15	0.13	>90%	<20%	105,00
BVT-40-50L-MV-35K	3500K	>80	4,793	40	120	120-277	0.33	0.17	0.14	>90%	<20%	104,00
BVT-40-50L-MV-4K	4000K	>80	5,200	40	130	120-277	0.33	0.17	0.14	>90%	<20%	104,00
BVT-40-50L-MV-5K	5000K	>80	5,240	40	131	120-277	0.33	0.17	0.14	>90%	<20%	104,00
BVT-53-67L-MV-35K	3500K	>80	6,469	52	127	120-277		0.21	0.18	>90%	<20%	89,000
BVT-53-67L-MV-4K	4000K	>80	6,760	52	130	120-277	0.43	0.22	0.19	>90%	<20%	89,000
BVT-53-67L-MV-5K	5000K	>80	6,812	52	131	120-277	0.43	0.22	0.19	>90%	<20%	89,000

¹ Color rendering index.

² All 50-60Hz.

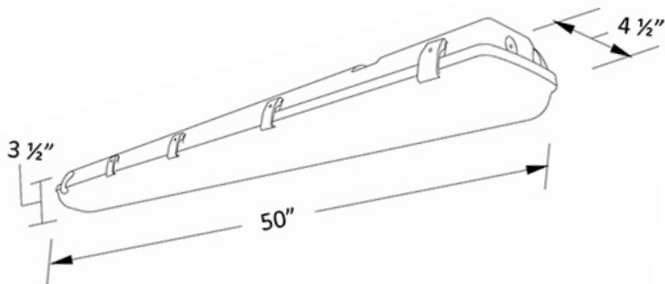
³ Total harmonic distortion.

⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

- [IES Files and Zonal Lumen Summaries and Polar Diagrams](#)

DIMENSIONS



OPTIONS

EMERGENCY LIGHTING CONTROLS (ELC)

For use with Central Battery Systems (purchased separately)

MODEL	OPTION CODE	
	ELC10P2	ELC14P2
	EM LUMENS ¹	EM LUMENS ²
BVT35	1300	1820
BVT40	1300	1820
BVT52	1300	1820

¹ Minimum ² Maximum

Note: Lumen output is factory adjustable. Contact factory for specific values.

Learn more about ELC's on our website, www.signtexinc.com.

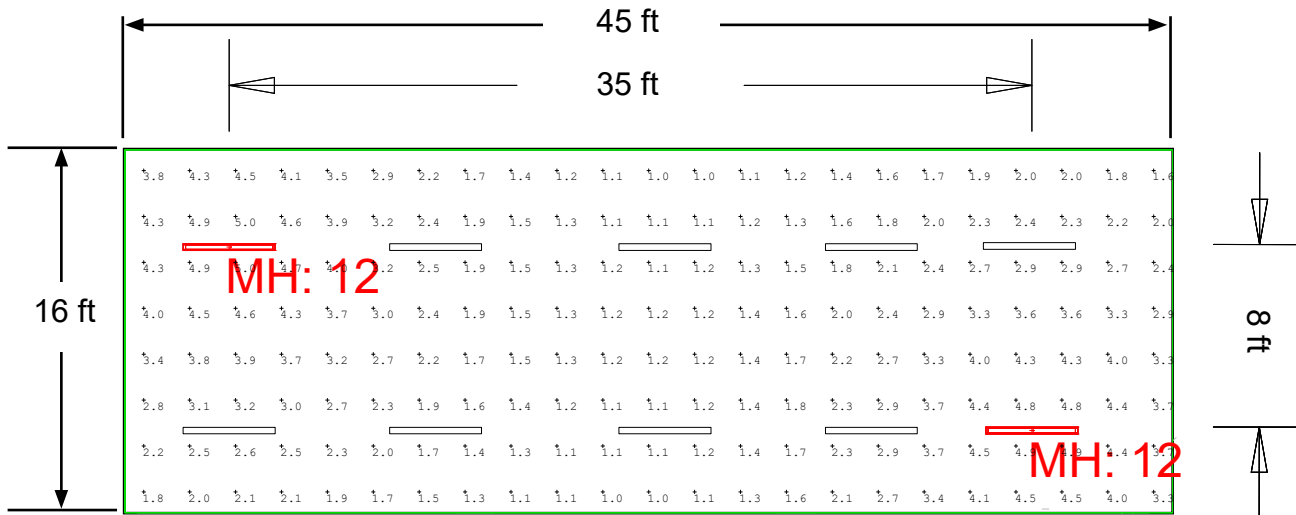
Emergency Lighting with ELC

The following Point-to-Point sample shows typical performance in the medium power range for both fixture and ELC, based on IES files and using a light loss factor (LLF) calculated as follows:

LIGHT LOSS FACTOR = ELC Emergency Power (Watts)*/ Fixture Normal Power (Watts)

LLF = $\frac{\text{ELC Emergency Power} * (\text{Watts})}{\text{Fixture Normal Power} (\text{Watts})}$ *Power value and ELC Type are given in the OPTION CODE above.
Example: ELC10P1 = 10 Watts Emergency Power for 90 mins: Package Type P1

The calculation is based on illumination values given in NFPA 101 and NEC 70, which stipulate an initial minimum average of 1 Fc at floor level, a minimum of 0.1 Fc at any point, and a uniformity ratio no higher than 40:1. NOTE, values are allowed to decrease 40% after 90 minutes, but ELC is a constant power device so emergency illumination does NOT decrease.



MODEL	ELC OPTION #	ELC POWER	EMERGENCY LUMENS	LLF	MOUNT HEIGHT	AVG. LUMENS ON PATHWAY	MAX/MIN UNIFORMITY
BVT52	ELC14P2	14 Watts	1747	0.27	12 FT	2.49 Fc	5.00

EMERGENCY DRIVERS-INTEGRAL

MODEL	OPTION CODE		
	EM08	EM12	EM16
	EM LUMENS	EM LUMENS	EM LUMENS
BVT35	800	1200	1600
BVT40	800	1200	1600
BVT52	800	1200	1600