clear-vu lighting

LED Portable Lamp Bank

Are your maintenence and repair personnel still using antiquated incandescent technology to illuminate hazardous underground operating environments?

Clear-Vu Lighting has designed and developed an innovative, LED-based portable lighting system that is a tremendous leap forward in safety, efficiency and functionality. The LED Portable Lamp Bank overcomes the deficiencies of the existing products currently in use to provide work and maintenance lighting for municipal transportation systems and other underground work sites.

LED PORTABLE LAMP BANK FEATURES

Safety & Durability
By encasing the LEDs, electronics and power supply in a high-impact, anti-static grade plastic housing with optimized translucent and opaque sections as well as rubberized contact zones, the LED Portable Lamp Bank is ready to handle the toughest of subterranean environments.

Energy Efficiency
Consumes roughly ¼ the energy required from incandescent-based solutions. This translates into significant energy savings of roughly $1000 over five years as well as a reduced carbon footprint.

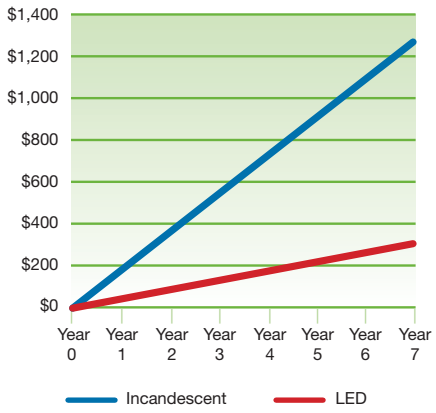
Ergonomics & Compliance
Designed for enhanced portability with dual-carry modes and integrated wire containment, RoHS compliant

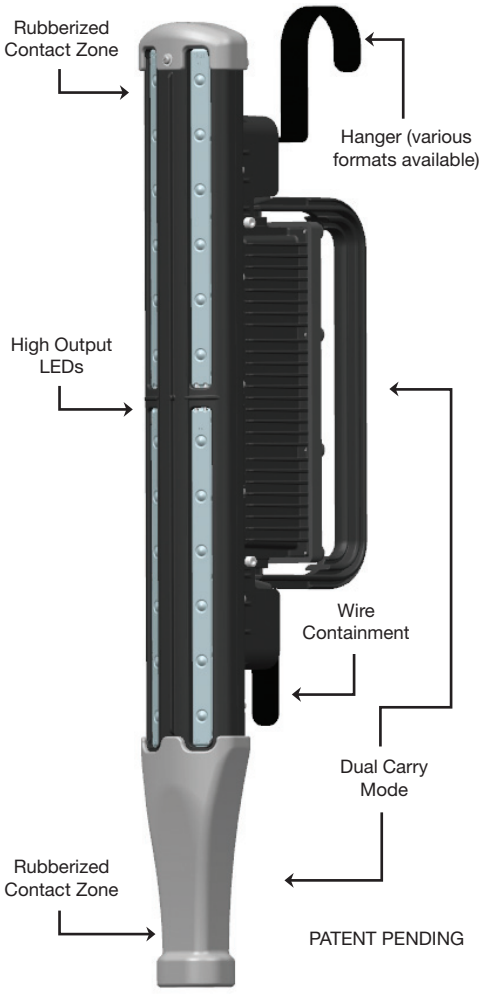
Operational Life
The high-output LEDs shine more than 12 times as long as incandescent bulbs. Maintenance workers will spend less time replacing light bulbs and more time doing the work they need to.

Optional Functionality
Custom voltage inputs to power supply and optional portable battery pack to increase mobility.

Fixed Energy Cost – Half Year Use

	Incandescent Solution	LED Solution
Power Consumption	375W	70W
$/kWh	0.10	0.10
Usage/Yr (Hours)	4380	4380
Electricity Cost/Yr	$164.25	$30.66
Maintenance Cost/Yr	$15	$0





Size: 29.5” x 4.78” x 7”

Weight: 10lbs with L7-15P plug (with extension cord)

29 New York Avenue | Westbury, NY 11590 | 516.333.8880 | lighting@clear-vu.com

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Applications

- Ideal for underground tunnel lighting, third-rail or catenary-powered outdoor work/task lighting, and high-output portable lighting for petroleum, mining, and power generation lighting applications
- Functions in damp environments, impervious to steel dust, operating temperature: -20° to 50°C

Construction

- Heavy-duty injection molded housing is zero halogen
- Automotive-grade polycarbonate lens assembly, with integrated cast aluminum heat sinks

Electrical

STANDARD ELECTRICAL INPUT (AC)

- LED Driver operating voltage: 90 – 305 VAC, 47 – 63 Hz
  - Portable battery pack option available
- Power Consumption: 70 Watts – nominal
- UL Recognized Class II Power Supply with Power Factor Correction
- Protection: short circuit, over current, over voltage, over temperature
- EMC Emission: EN55015, EN61000-3-2 Class C, EN61000-3-3
- EMC Immunity: EN6100-1-2, 3, 4, 5, 6, 8,11, EN55024
- Power Supply Safety Standards: UL 8750, CSA 22.2 No 250.0-08, ENG 61347-2-13 withstand voltage IP-FG 2KVAC

HIGH VOLTAGE INPUT (HV)

- LED Driver operating voltage: 450 – 1000 VDC, 600 VAC ± 15%
- Power Consumption: 75 Watts – nominal
- Surge / Transient Protection:
  - 1500 VDC @ 10 seconds, 2500 VDC @ 1 second, 3000 VDC @ 5 microseconds
- MIL-STD-461E EMI filter

Optics

- 24 High-output bright white LED's (4100K)
- Proprietary, precision OptiClear™ Engine collimates and maximizes light distribution to target area while minimizing glare
- LEDs have a rated life of 70% lumen maintenance at 50,000 hours

Warranty/Listings

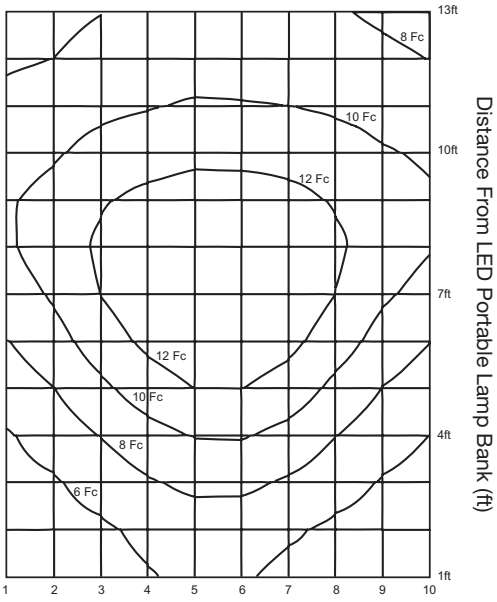
- 3 year limited warranty
- RoHS compliant
- LM-79 tested – results available upon request

Photometric Data

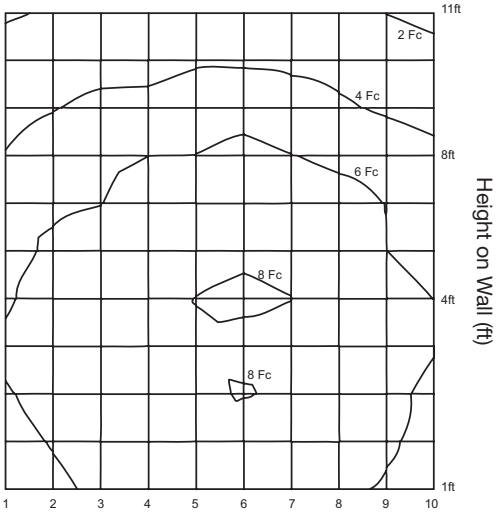
- Total Rated Lamp Lumens: 3000

ILLUMINANCE CHARTS

Floor from a Height of 15ft.



Opposite Wall from a Distance of 13ft.



Ordering Guide Example: PLB-01-AC-15-715-GY

PLB-01	–	AC	–	15	–	715	–	GY
	–		–		–		–	

SERIES
PLB-01=Portable Lamp Bank

VOLTAGE
AC=90-305 VAC
DC=24 VDC
HV=450-1000 DVC, 600 VAC

CORD LENGTH
15=15'
25=25'

CONNECTOR
NOC=No Clips
ALC=Alligator Clips
515=NEMA 5-15P Plug
715=NEMA L7-15P Plug

COLOR
GY=Gray
BK=Black

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