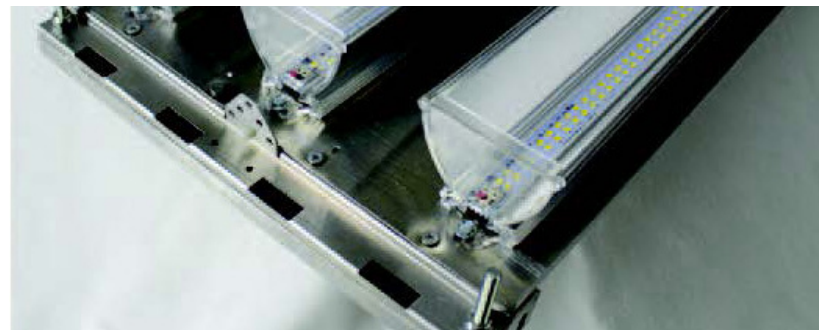




HIGH BAY RETROFIT SYSTEM (HBR) *U.S. PATENT NO. 9,752,735

Linmore LED Labs Ultra Performance High Bay Retrofit System (HBR) is an innovative approach to going LED when you already own fluorescent high bay lighting. The problem is the waste of fluorescent lighting, not the fixtures themselves. When your existing light fixtures have enduring value and longevity, retrofitting may be the best option. Integrating a Linmore HBR System involves replacing fluorescent lamps, reflectors, and ballasts with Linmore LED's patented High Bay ParaBar's™, Drivers, and Adapter Plate. When the objective is to go LED by leveraging an existing fluorescent high bay light fixture and upgrading your high bay lighting to use the least amount of energy and the least amount of maintenance, and get an industry leading warranty, the Linmore HBR System is the clear choice.



HIGHLIGHTS

Efficacy:

- 141 Lumens/Watt Delivered

Optics

- ParaBars™ Light Bars
(*Covered under U.S. Patent No. 9,752,735)
- Optically Engineered Parabolic Shape
- 98% Reflective Siding
- Clear, Polycarbonate End Caps

Construction:

- ParaBars™: Extruded Aluminum
- LED Driver Enclosure: Aluminum
- No Glass
- No Mercury
- No UV Light

Thermal Dissipation:

- Air Cavity Heat Transfer System (patented)
- All Aluminum Construction

Ease of Ownership:

- Warranty: 14 Years Light Bar / 5 Years Driver
- Adaptive: Add or Remove ParaBars™ as area needs change over time

Electrical:

- 0-10V Dimming
- Aluminum Driver Housing

Controls:

- 0 -10V Dimming
- Optional: Wattstopper FSP-211 Occupancy/ Photo Sensor, Remotely Programmable

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Suitability	Dry or Damp Locations
Warranty	14 Years Light Bar / 5 Years Driver
Expected Life	> 100,000 Hours
Driver	0-10 Volt Dimmable
System Input Wattage	72-176 Watt Models
# of Diodes ParaBar™	120 Surface Mount Diodes
Efficacy (5000K)	141 Lumens/Watt (+/- 10%)
Voltage	100-277 Volts AC, 347/480V Avail

Dimensions	2.8" x 44.25" per ParaBar™
Color Rendering Index (CRI)	82
Color Temperature	5000K
Total Harmonic Distortion	< 9% (277 Volt)
Extrusion Material	6063 T5 Aluminum
Operating Temperature	-40F - 135F
Power Factor	0.99
Certifications	DLC Premium, UL1598, Lighting Facts, FCC CFR 47 Part 15, ROHS, CUL (Canada)
Design Lights Consortium	Yes, Premium**

Ordering Information

Model	Kelvin	Number of Bars	Wattage	Lumens		Options
LL-HBR	5000K (50K)	2	72	10200	HBR ParaBars & Drivers Only	HBA46 High Bay Adapter Plate
		2	88	11900		DF Diffuser: 94% Transmission, Glare Reduction
		3	88	12800		
		3	132	18500		
		4	144	20300		
		4	176	24816		

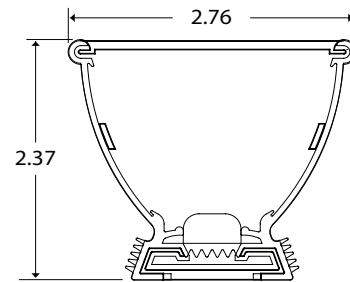
Example

LL-HBR-4-50K-144W-XX

Available Models:

- LL-HBR-2-50K-72W-XX
- LL-HBR-2-50K-88W-XX
- LL-HBR-3-50K-88W-XX
- LL-HBR-3-50K-132W-XX
- LL-HBR-4-50K-144W-XX
- LL-HBR-4-50K-176W-XX**

ParaBar™ Front View



*U.S. Patent No. 9,752,735.

** 176W model is DLC pending.

Specifications are Subject to Change.

