

HIGH BAY RETROFIT SYSTEM (HBR) PATENTED*

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 patent pending 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

Optics

- ParaBars™ Light Bars (patent pending)
- Optically Engineered Parabolic Shape
- 98% Reflective Siding
- Clear, Polycarbonate End Caps

Efficacy

- 141 Lumens/Watt Delivered

Construction

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

Thermal Dissipation

- Air Cavity Heat Transfer System (patent pending)
- 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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EFFICACY

- Only highest performance diodes for ultra-high lumens/watt
- Lowest Watts per Foot Candles Available
- 288 LEDs per ParaBar™ for superior consistency of light distribution

THERMAL DISSIPATION

- The heat sink extrusion is made of 6063 T5 Aluminum with substantial fins & surface area for superior heat dissipation
- Patent pending Air Flow Cavity under LED PCB allows dissipated heat to leave the URS area
- Interior PCB Board is made of aluminum core and mechanically bonded to the aluminum extrusion heat sink

OPTICS

- Parabolic shape reflectors for consistent light distribution
- 98% Reflective material lines the ParaBars™ for maximum delivered lumens
- Glass Free

SPECIFICATIONS

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
Color Rendering Index	82
Color Temperature	5000K
Efficacy (5000K)	141 Lumens/Watt (+/- 10%)
Voltage	100-277 Volts AC, 347/480V Avail
Dimensions	2.8" x 44.25" per ParaBar™
Extrusion Material	6063 T5 Aluminum
Operating Temperature	-40F - 135F
Power Factor	0.99
Total Harmonic Distortion	< 9% (277 Volt)
Certifications	UL1598, Lighting Facts FCC CFR 47 Part 15, ROHS CUL (Canada)
Design Lights Consortium	Yes, Premium**

ORDERING INFORMATION: HIGH BAY

RETROFIT SYSTEM (HBR) PATENTED*

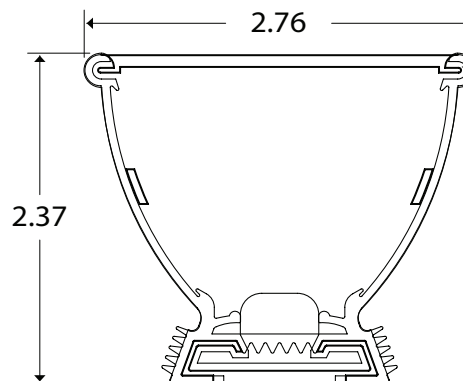
Product Series	# of Para Bars	Color Temp	System Input Power	Delivered Lumens/ System		Options
LL-HBR - _ _ K - _ _ W-XX						
	2	5000-50K	72	10,200	HBR ParaBars & Drivers Only	HBA46 - High Bay Adapter Plate DF - Diffuser: 94% Transmission, Glare Reduction
	2		88	11,900		
	3		88	12,800		
	4		144	20,300		
	4		176	24,816		

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-108W-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.