

Project Name: \_\_\_\_\_

Application: \_\_\_\_\_

Date: \_\_\_\_\_

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 10 Year Warranty, the Linmore HBR System is the clear choice.

### Ultra Performance High Bay Retrofit System (HBR) (Patents Pending)



#### 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:

- 10 Year Limited Warranty
- Adaptive: Add or Remove ParaBars™ as area needs change over time

#### Electrical:

- 0-10V Dimming
- Aluminum Driver Housing



## Specifications

Suitability	Dry or Damp Locations
Warranty	10 Year Limited Warranty
Expected Life	> 100,000 Hours
Driver	0-10 Volt Dimmable
System Input Wattage	72-144 Watt Models
# of Diodes/ParaBar™	288 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	UL
Design Lights Consortium	Yes

## High Bay Retrofit System (HBR)

### 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 UPH area
- Interior PCB Board is made of aluminum core and mechanically bonded to the aluminum extrusion heat sink

### OPTICS (patent pending)

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

## Ultra Performance High Bay Retrofit System (HBR)

Product Series	Color Temp	ParaBar™ Configuration	# of ParaBars	System Input Power	Delivered Lumens/ System		Options
Ultra Performance High Bay (UPH)	5000-50K	Normal-N	2	72	10,152	HBR-ParaBars & Drivers Only	HBA46 - High Bay Adapter Plate
			3	88	12,408		DF - Diffuser: 94% Transmission, Glare Reduction
			3	108	15,228		
			4	144	20,304		

Example: LL-UPH-50K-N-?-?-HBR-?

Complete: LL-UPH-50K-N-2-72-HBR-HBA

 = Most Common

Specifications are Subject to Change. Patents Pending.