

ARCHITECTURAL AREA LIGHTING

# MICROCORE™ UPGRADE KITS

REFINED LED TECHNOLOGY  
FOR OUTDOOR LIGHTING

architectural  
area lighting



HUBBELL®  
Lighting

# UPGRADE KITS

# MICROCORE™ UPGRADE KITS

AAL's revolutionary **MicroCore™** light engine represents a notable revolution in optical technology. Precision engineering harnesses the power of today's brilliant, high-efficiency LED's, delivering maximum performance in outdoor lighting applications.

**MicroCore™**-enabled luminaires present a balanced, versatile approach to light delivery, emphasizing superior control, uniform illumination, and glare reduction.

MICROCORE UPGRADE KITS AVAILABLE IN THESE PRODUCTS

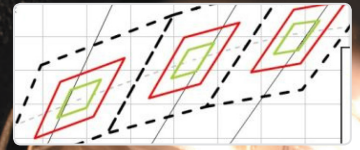


MicroCore™ upgrade kits are available in a wide range of Architectural Area Lighting's post-top luminaires, including Providence®, Flex™, Universe®, Promenade, and Mitre™.



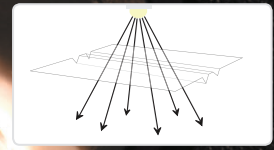
- Superior performance
- Long life 138,000+ hours
- Optical arrays are designed and tested to IP66
- Type II, III, IV, V, Custom
- Superior, industry-leading BUG ratings
- Integral thermal management and excessive temperature protection
- Color temperatures 3000K, 4000K, 5000K

**CONSISTENT, EFFICIENT OPERATION**

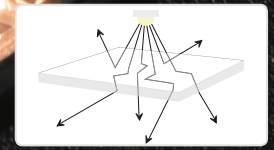


By employing long-life, low-maintenance LED's, MicroCore™ optical arrays deliver incredibly dependable, uniform, energy-efficient performance across a wide range of applications. High brightness lighting class diodes of the highest quality are used for color and chromacity control, and have an operational life of more than 138,000 hours.

**IMPROVED LIGHT TRANSMISSION**



microcore lens



Flat lens

MicroCore™ modules are completely sealed, conforming to stringent IP66 standards. The need for a conventional fixture-sealing lens is eliminated, improving native light transmission by up to 15%.

**LOW-PROFILE DESIGN**

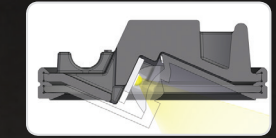


microcore lens

All MicroCore™ optical arrays have been designed to blend seamlessly into their installations, presenting a smooth, streamlined appearance, plus a color matched bezel greatly improves the appearance during non-operational daytime hours. High efficiency coupled with sleek optical array construction means you'll no longer have to sacrifice aesthetics for performance.



**PRECISE OPTICAL CONTROL**



MicroCore™ modules have been carefully engineered for maximum light emission management. Their unique construction affords flexibility of focus, precise distribution, and crisp definition. Tight cutoffs minimize backlight, and allow for unmatched glare and scatter control. MicroCore arrays can be configured to reproduce any IES distribution pattern, delivering highly uniform illumination, and creating inviting outdoor environments.

**RETROFIT FLEXIBILITY**



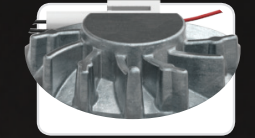
HID



MicroCore deck upgraded

Looking to upgrade from an HID system? MicroCore™ optical arrays are designed for backwards compatibility with our existing luminaire housings. Any of AAL's luminaires currently equipped with a High-Intensity Discharge illumination system can be field upgraded to an efficient MicroCore™ optical array quickly and easily via plug-and-play connectors.

**THERMAL MANAGEMENT**



Excess heat buildup is the enemy of conventional lighting systems, compromising performance, and shortening the life of components over time. In order to mitigate these effects, all MicroCore™ enabled luminaires employ a comprehensive thermal management profile that negates heat effects in three important ways.

First, individual heat sinks on the rear of each module draw heat away from the diodes, efficiently dissipating heat. Second, driver compartments have been isolated from other heat-generating components in order to eliminate sympathetic heat concentration. Third, every MicroCore system incorporates an integrated thermostat that continually monitors heat levels, and automatically adjusts the on-board temperature to compensate for any over temperature situaiaon.

These important features work together to not only extend the life of the modules, but also to eliminate the need for exterior fins, thereby preserving the timeless aesthetics of the housing design.



# INSTALLATION INSTRUCTIONS

## 7 simple steps to finish

1. Remove ballast components from gear compartment
2. Install pre-wired driver assembly into lower fitter cap assembly
3. Make connections in lower fitter cap assembly. Install lower fitter cap assembly
4. Remove existing HID components
5. Make connections in lamp compartment
6. Install MicroCore optical array
7. Close fixture securely

1

Remove ballast



2

Install driver



3

Change cable  
inside the strut



4

Remove HID  
optical system



5

Make wiring  
connections



6

install MicroCore  
optical array



7

Close fixture  
securely



FINISH

Energize fixture







## UPGRADE KITS AVAILABLE

- Flex™
- Mitre
- Providence®
- Promenade
- Universe®

## PERFORMANCE DATA

Luminaire			MicroCore			
NAME	NOMENCLATURE	VOLTS – AC	CURRENT	SYS. WATTS	REPLACES	LUMENS
Flex™	FH	120 - 277	700mA	132w	250PSMH	11,000-3,600
			450mA	84w	175MH	
Mitre	M2	120 - 277	700mA	75w	150PSMH	6,700-2,800
			450mA	49w	100MH	
Providence®	PROV	120 - 277	700mA	75w	150PSMH	5,600-2,300
			450mA	48w	100MH	
	PROL	120 - 277	700mA	132w	250PSMH	8,900-4,000
			450mA	85w	175MH	
Promenade	PRMD	120 - 277	700mA	112w	200PSMH	9,500-2,500
			450mA	72w	150PSMH	
	PRMN	120 - 277	700mA	112w	200PSMH	7,900-2,900
			450mA	72w	150PSMH	
	PRMS	120 - 277	700mA	112w	200PSMH	8,400-3,300
			450mA	72w	150PSMH	
Universe®	UCM	120 - 277	700mA	71w	150PSMH	6,700-2,400
			450mA	48w	100MH	
			XMA	Custom wattage or drive current		
	UCL	120 - 277	700mA	132w	250PSMH	11,000-3,700
			450mA	84w	175MH	



## ORDERING INFORMATION

PRODUCT		DISTRIBUTIONS	COLOR TEMP	CURRENT (MA)	FINISH COLOR		
<b>Flex</b>	<b>FH</b>	T2/T3/T4/T5-56LED	3K, 4K, 5K	450, 700	Bezel available in 13 standard finishes and premium finishes *		
<b>Mitre</b>	<b>M2</b>	T2/T3/T4/T5-32LED					
<b>Providence</b>	<b>PROV</b>	T2/T3/T4/T5-32LED					
	<b>PROL</b>	T2/T3/T4/T5-56LED					
<b>Promenade</b>	<b>PRMD</b>	T2/T3/T4/T5-48LED			3K, 4K, 5K, 27K, 35K, AM	450, 700, XMA	Bezel finish in white
	<b>PRMN</b>						
	<b>PRMS</b>						
<b>Universe</b>	<b>UCM</b>	T2/T3/T4/T5-32LED	3K, 4K, 5K	450, 700			Bezel available in 13 standard finishes and premium finishes *
	<b>UCL</b>	T2/T3/T4/T5-56LED					

**\* Note:**

AWT Arctic White	WRZ Weathered Bronze	MDG Medium Grey
BLK Black	BRM Metallic Bronze	ATG Antique Green
MTB Matte Black	VBL Verde Blue	LGY Light Grey
DGN Dark Green	CRT Corten	RAL/PREMIUM COLOR Provide RAL
DBZ Dark Bronze	MAL Matte Aluminum	CUSTOM COLOR Provide color chip for matching







**HUBBELL**  
**Lighting**

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ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS PRODUCTS

DEVINE LIGHTING

DUAL-LITE

HUBBELL BUILDING AUTOMATION

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

LIGHTWEAVE

LITECONTROL

PRESCOLITE

PROGRESS LIGHTING

SPAULDING LIGHTING

SPORTSLITER SOLUTIONS

STERNER

WHITEWAY

