

The Avanti MIDI Hawk luminaire is available with a wide choice of mounting configurations and an IES Type V distribution designed to replace HID lighting systems from 150w to 250w MH or HPS for wildlife, dark skies, or security applications requiring monochromatic AMBER light. LEDs operate between 585 and 595 nm, greater than 560nm required for wildlife protection. Typical applications include general area, parking, flood, security, and accent lighting for retail centres, industrial parks, schools and universities, public transit and airports, office buildings and medical facilities. Mounting heights of 5 to 8 metres can be used based on light level and uniformity requirements.

Specifications and Features:

Housing:

Die cast aluminium housing and front frame, integral heat sinking and driver compartment. Photocell adaptable. Nickel-Plated stainless steel hardware.

Listing & Ratings:

UKCA/CE: Listed for wet locations, ANSI/UL 1598, 8750; IP66 sealed LED compartment.

Finish:

Textured architectural black (close to RAL 9005) powdercoat finish over a chromate conversion coating. Custom colours available upon request.

Lens:

Tempered clear flat glass lens

Mounting Options:

Mounts with Kitty Hawk Arm, Adjustable Slipfitter, 60mm diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Easy Hang Wall Bracket (factory installed).

AmberLED:

Aluminium boards

Wattage:

81w array model: 84.2w (150-250w HID equivalent)

Driver:

UKCA/CE Certified Driver

Controls:

Fixtures ordered with factory-installed photocell or motion sensor controls are internally wired for switching and/or 1-10V dimming within the housing. Remote direct wired interface of 1-10V dimming is not implied and may not be available, please consult factory. Fixtures are tested with Avanti controls and may not function properly with controls supplied by others. Fixtures are NOT designed for use with line voltage dimmers.

Warranty:

5-year Warranty for -40°C to +50°C environment.

See page 3 for Projected Lumen Maintenance Table.

L70
25°C

320,000 Hours

AmberLED MIDI Hawk Area, Wall and Flood Light



Shown with "KA" Hawk Arm mounting option.



Shown with "EH" Easy-Hang Wall Bracket mounting option.



Shown with "SF" Slipfitter mounting option.

Dimensions

Width (D) 340mm

Length (B) 381mm

Height (A) 92mm

Length with Mount (L)

Bracket (BR): 476mm

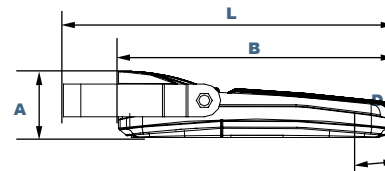
Yoke (Y): 457mm

Hawk Arm (KA): 491mm

Easy-Hang Wall Bracket (EH): 406mm

Mounting Arm Adaptor (MA): 486mm

Slipfitter (SF): 476mm



Order Information Example:

AP-AL-MHFIX81UAMCBYR3

Model	Optics	Wattage	Driver	CCT	Lens	Colour	Mounting	Options
AP-AL-MH= AmberLED Small Bentley Kitty Hawk Area, Wall, and Flood Light	F=Type V/ NEMA 7H x 7V See Page 3 for Distribution Information.	1X81=81w	U=UKCA/CE Certified Driver	AM=1400K	C=Standard Clear Flat Glass Lens	B=Black C=Custom (Consult Factory)	BR=Two-Piece Swivel Bracket Y=Yoke MA= Mounting Arm Adapter KA=Kitty Hawk Arm EH=Easy-Hang Wall Bracket SF= Slipfitter	R3=3-Pin Twist Lock Photocell Receptacle R7=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle

Notes

① Maximum tilt angle of 45° above horizontal with R3, R5, or R7 photocell receptacle options

Certification & Listings:



AmberLED



Specifications subject to change without notice.

Address: Unit 75, Standard Way, Gravelly Industrial Park, Birmingham, B24 8TL Tel: 0121 726 6999 | Fax: 0121 726 6997

Email: sales@avanti-lighting.co.uk Web: www.avanti-lighting.co.uk

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Mounting Options:



AP-AL-MH with Two-Piece Swivel Bracket (BR)

Two-piece stamped steel Adjustable Bracket, black powdercoat finish, includes hardware.



AP-AL-MH with Yoke (Y)

Stamped heavy-duty steel Yoke, black powdercoat finish, includes hardware.



AP-AL-MH with Pole Mounting Arm Adaptor (MA)

Die cast adaptor for 60mm Horizontal Mounting Arms, black powdercoat finish, includes hardware.



AP-AL-MH with Hawk Arm (KA)

Hawk die cast Mounting Arm, black powdercoat finish, includes hardware. Mounts directly to square poles.



AP-AL-MH with Easy-Hang Bracket (EH)







Die cast Easy-Hang Wall Bracket, black powdercoat finish, includes hardware.



AP-AL-MH with "SF" External Mount Slipfitter (SF)

External mount die cast Adjustable Slipfitter for 60mm tenons, black powdercoat finish, includes hardware.

Windage Shown with MIDI Hawk Arm mounting.

Configuration	Windage (M ²)	Weight (kg)	Configuration	Windage (M ²)	Weight (kg)	Configuration	Windage (M ²)	Weight (kg)	Configuration	Windage (M ²)	Weight (kg)
	0.072	6.9		0.144	13.8		0.144	20.7		0.158	37.6
1			2@180° Mount			3@90° Mount			4@90° Mount		
				0.098	13.8		0.144	20.7			
			2@90° Mount			3@120° Mount					

Accessories & Replacement Parts

Mounting Accessories (Order separately, field installed)	
KH20RPB	Die-Cast Adaptor for 76mm to 102mm round poles, black powdercoat finish. Use with KH25A Kitty Hawk Mounting Arm only.



KH20RPB

Accessories (Order separately, field installed)	
P18132	Twist Lock Shorting Cap provides fixed service to fixture (fixture always on). IP65, Rated Load 7200w Tungsten.
P18156	120-277VAC Universal Twist Lock Photocell
KH25GSB	Aluminium Glare/House Side Shield, black powdercoat finish, includes hardware.



P18132



P18156



KH25GSB

Replacement Parts (Order separately, field installed)	
FL73BRB	Two-piece stamped steel Adjustable Bracket, black powdercoat finish, includes hardware.
KH25YB	Stamped heavy-duty steel Yoke, black powdercoat finish, includes hardware.
ALMAAB	Die cast adaptor for 60mm Horizontal Mounting Arms, black powdercoat finish, includes hardware.
KH25AB	Kitty Hawk die cast Mounting Arm, black powdercoat finish, includes hardware. Mounts directly to square poles.
KHEHB	Die cast Easy-Hang Wall Bracket, black powdercoat finish, includes hardware.
FL73SFXB	External mount die cast Adjustable Slipfitter for 60mm tenons, black powdercoat finish, includes hardware.

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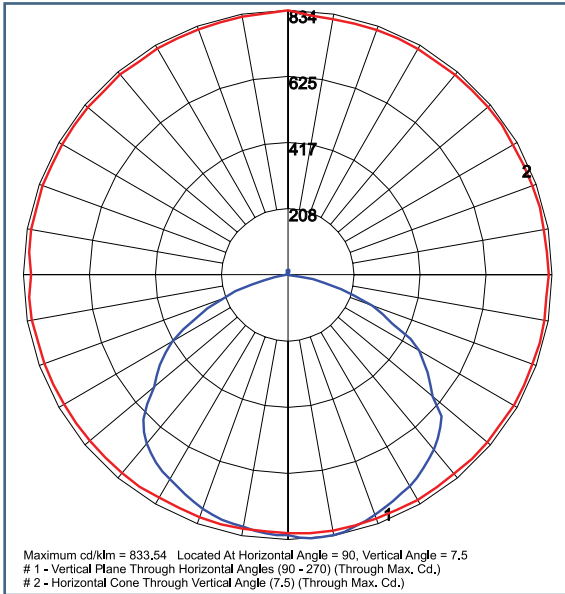
L70
25°C

320,000 Hours

AmberLED MIDI Hawk Area, Wall and Flood Light

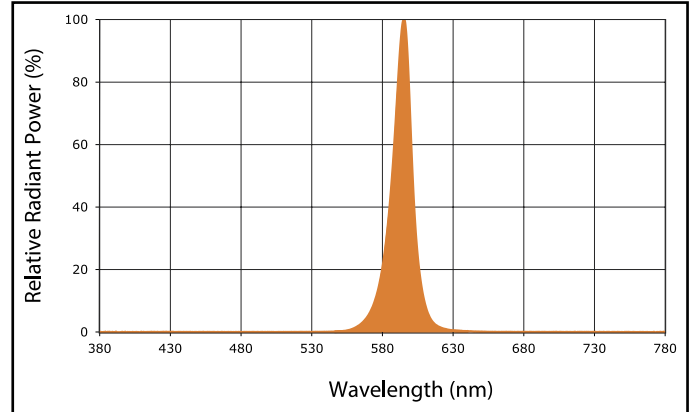


Photometric Data



AP-AL-MHFIX81UAMC
Type V

Spectral Chart



Photometric Performance

Variant	Drive Current (mA)	Wattage	Optics	SHR	Amber LEDs	
					Lumen Output	Llm/cW
AmberLED 81w	525	82	F	Type V	2,607	32

Variant	Drive Current (mA)	Wattage	Beam		Amber LEDs	
			Beam	Lumen Output	Llm/cW	
AmberLED 81w	525	82	F	120H x 120V, NEMA 7H x 7V	2,587	32

Projected Lumen Maintenance

Data shown for Amber LEDs			Compare to MH			
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 25°C
L70 Lumen Maintenance @ 25°C / 77°F	82	1.00	0.98	0.95	0.91	320,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L70@ 50°C
L70 Lumen Maintenance @ 50°C / 122°F	82	1.00	0.95	0.89	0.79	141,000
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated L80@ 40°C
L80 Lumen Maintenance @ 40°C / 104°F	82	1.00	0.96	0.93	0.85	134,000

NOTES:
 1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
 2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

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