

# High Bay AX-HB150U

80W-150W



PROJECT:

TYPE:

## Features

Efficient and flexible highbay pendant provides general and display lighting for wide variety of applications including retail, supermarket, convenience store and auto dealerships. The AX-HB150U High Bay provides over 150 lpm and is available in 3 field settable wattages and color temperatures for proper illumination with decreased maintenance cost, better efficiency and better quality of light.

## Product Overview

Type: Round Pendant  
Wattage: 80W-150W (*wattage selectable*)  
Lumen Output: 22,665 lm max: 157 lm/W at 4000K-80  
Color Temp: 3000K, 4000K, 5000K (*color selectable*)  
CRI:  $\geq 80$   
Dimming: 0-10V (*10% dim*)



AX-HB150U



(Shown with Optional Refractor)

## Certifications



Pending

## Fixture Summary

### Performance Data

Nominal Watts	Delivered Lumens	LPW	Color Temp-CRI
80	13,723	170	4000K-80
120	19,058	163	4000K-80
150	22,665	157	4000K-80

Data less refractor.

### Electrical Data

	80W		120W		150W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	80	0.67	120	1.0	150	1.25
277V	80	0.29	120	0.43	150	0.54

Electronic constant current LED driver. Values can fluctuate  $\pm 10\%$ .

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Base Unit Example: AX-HB150U.WS.CS

Refractor Example: AX-R16W

## Ordering Information - Base Unit

AX-HB150U	.	WS	.	CS
1		2		3

1	Model	2	Wattage*	3	Color Temp*
	<b>AX-HB150U</b> 80-150W, 3000K-5000K, 80CRI, 80° clear optic lens, eyelet, white finish, 6' white 18/3 power cord, 120-277V, 0-10V dimming ( <i>via separate dimming cord</i> )		<b>WS</b> wattage (80, 120, 150) selectable in field  <i>* Highbay provided set at 150W, 4000K from factory.</i>		<b>CS</b> color (3000K, 4000K, 5000K) selectable in field, 80CRI

## Ordering Information - Refractor (*ordered and shipped separately*)

1
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1	Model
	<b>AX-R16C</b> clear prismatic polycarbonate 16" refractor <b>AX-R16W</b> white prismatic polycarbonate 16" refractor

## Ordering Information - Options (*ordered and shipped separately*)

1
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1	Model
	<b>HOOK</b> open hook with locking screw ( <i>replaces eyelet, installed in field</i> ) <b>SC2.5</b> 30" safety cable ( <i>installed in field</i> ) <b>EM25</b> remote mounted EM inverter, 25W ( <i>installed in field</i> )

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## Specifications - Base Unit

### Application

Retail and commercial ambient and display lighting

### Construction

Die-cast aluminum driver enclosure.  
Die-cast aluminum heat sink, white finish  
Sealed and gasketed optic and driver chambers  
Precision molded polycarbonate optic lens  
Slide switches for wattage and cct selection  
6' 18/3 white power cord  
6' 22/2 0-10V dimming cord

### Optical

**Beam Spread Options:**  
Base Unit with molded 80° clear lens.  
Polycarbonate refractor (*ordered separately*), available in clear or white finish.

### LED

**Color Temp Options:** 3000K, 4000K, 5000K (*selectable*)  
**CRI:** ≥ 80  
**Binning:** 6 MacAdam (*SDCM*)  
**Life:** 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

### Electrical

**Wattage:** 80, 120, 150 (*selectable*)  
**Operating Temperature Range:** -30°C to 50°C  
Electronic constant current LED driver, 120-277V 0-10V dimming via control cord. Dims down to 10%

**6KV surge protection**

### Finish

Powder coat paint

### Mounting

Eyelet mounting (*standard*).

**Optional mounting (*ordered and shipped separately*):**

Hook Mount with locking screw (*replaces eyelet, installed in field*)

Safety Cable - 30" stainless steel aircraft cable with loop and carbine snap.

### Emergency Option

Remote EM inverter (*ordered and shipped separately*).

In the event of an emergency, the emergency inverter will provide a continuous output of 25 watts for 90 minutes. Power consumption during the charging cycle is 12W max. To ensure proper emergency operation, the Emergency pack is equipped with a self-diagnostic circuitry that automatically runs test monthly 30-second and annually 90-minute to verify proper emergency operation according to life safety code NFPA 101.

### Certifications

UL listed  
Indoor use only  
IP65

### Warranty

5 year limited warranty (*25000 operating hrs*).

# High Bay AX-HB150U

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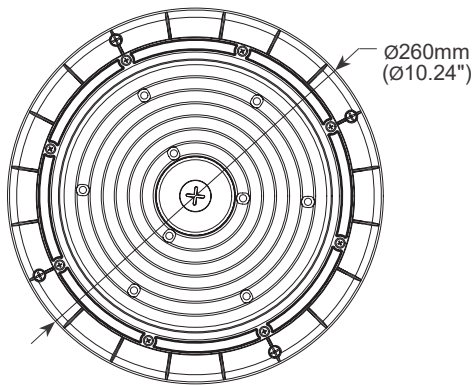
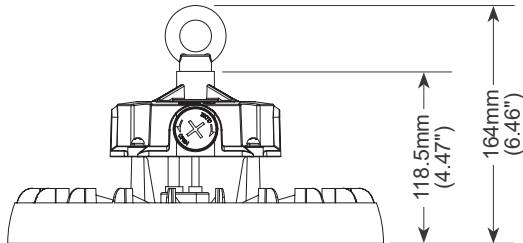


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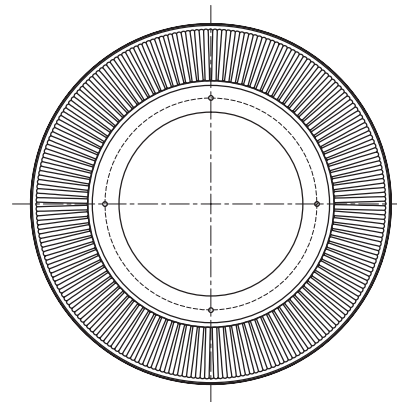
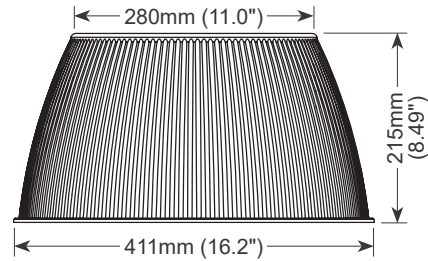
TYPE:

## Product Details

### Base Unit Details



### Refractor Details



Polycarbonate Clear or White Refractor

# High Bay AX-HB150U

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PROJECT:

TYPE:

## Performance Data

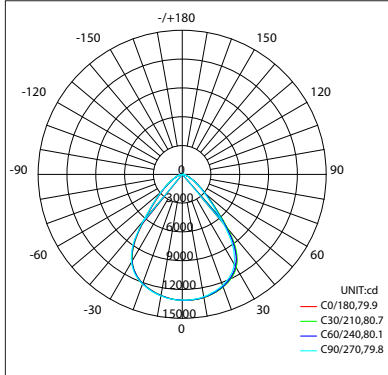
**Multiplying Factors:** (Multiplying Factor is based on 4000K-80 120V IES file on website)

Wattage:	80W	120W	150W
Factor:	0.60	0.84	1.0

CCT:	3000K-80	4000K-80	5000K-80
Factor:	0.90	1.0	0.93

### Base Unit

150W, 4000K  
Lumens: 22,665



#### CANDELAS AT NADIR

Deg	Candela
0	13110
5	13110
15	12790
25	11960
35	9740
45	4670

### Application Data:

#### Single Fixture:



0° Aiming Angle  
Horizontal  
Footcandles

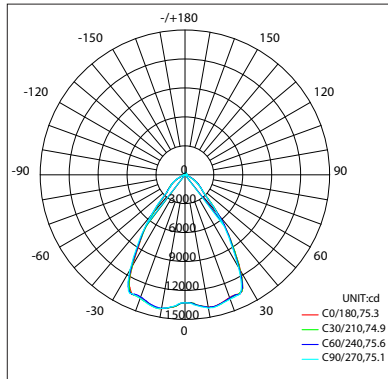
D	FC	L	W
18'	41	21.9	22.0
24'	23	29.0	29.5
30'	15	36.8	37.1

#### Multiple Fixtures: 50'x50' Room

Fixture Mounting	Spacing	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
16'	16'x16'	70/87	74/98
18'	18'x18'	64/72	67/78
24'	18'x18'	58/70	60/73
30'	18'x18'	53/68	55/70

### Base Unit with Clear Refractor

150W, 4000K  
Lumens: 21,716



#### CANDELAS AT NADIR

Deg	Candela
0	13280
5	13530
15	13870
25	13570
35	8220
45	3000

### Application Data:

#### Single Fixture:



0° Aiming Angle  
Horizontal  
Footcandles

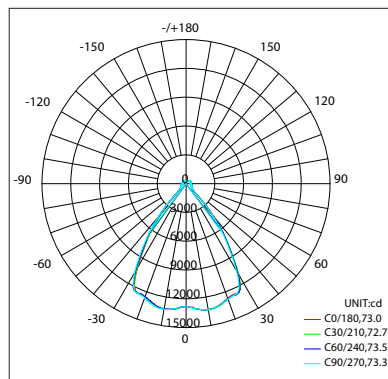
D	FC	L	W
18'	42	22.4	21.6
24'	24	28.9	28.9
30'	16	36.1	36.1

#### Multiple Fixtures: 50'x50' Room

Fixture Mounting	Spacing	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
16'	16'x16'	69/91	72/95
18'	18'x18'	62/74	65/75
24'	18'x18'	57/73	59/72
30'	18'x18'	52/66	54/69

### Base Unit with White Refractor

150W, 4000K  
Lumens: 21,575



#### CANDELAS AT NADIR

Deg	Candela
0	12860
5	13130
15	13160
25	12620
35	7510
45	1580

### Application Data:

#### Single Fixture:



0° Aiming Angle  
Horizontal  
Footcandles

D	FC	L	W
18'	40	21.5	21.5
24'	23	28.7	28.6
30'	15	35.9	35.7

#### Multiple Fixtures: 50'x50' Room

Fixture Mounting	Spacing	FC on Floor (avg/max)	FC at 2.5' AFF (avg/max)
16'	16'x16'	63/80	66/84
18'	18'x18'	57/66	60/68
24'	18'x18'	52/68	55/68
30'	18'x18'	49/63	51/64



Delta Intelligent Building Technologies

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## Dimming Compatibility

Amerlux® Everyday Highbay fixtures are compatible with 0-10V dimming protocol. Please see below for general compatibilities and wiring diagrams. Amerlux® recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY ---

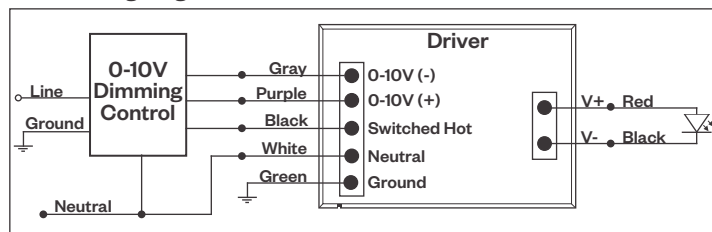
### 0-10V DIMMING

Integrates into a variety of building management and daylighting controls

#### Notes:

- 120VAC or 277VAC\*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

### 0-10V Wiring Diagram



#### Compatible Dimmers†:

Wall Box		Central System
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

#### Notes:

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.