Albeo™ LED Luminaire

LED High Bay Lighting
(ABV3 - Series)

Product Description:

The Albeo™ ABV3 LED luminaire is an exceptional mixture of value and performance. Ideal for high bay and low bay applications in industrial and commercial buildings. Designed to replace 150W-1500W HID and four-to eight-lamp T5/T8 HIF fixtures with unmatched reliability and quality.

Performance Highlights:

Light Output Range: 6,500 – 60,000 lumens
CRI: 70 & 80 CRI (90CRI Refer to factory for lead-time)
CCT: 3000K, 3500K, 4000K, 5000K
Distributions: 120°, 90°, 55°, 30° diffused & clear lens options
Input Voltage: 120V-277V, 347V, & 480V
Efficiency: Up to 200 LPW
Fixture Rated: L70 @ 100,000 hours minimum
Limited Warranty: 5 Years
Temperature Rating: –30°C to +55°C (-22°F to 131° F)
Controls & Sensors: 0-10V standard, Motion & daylight sensor options. Wireless ZigBee Daintree compliant options.

DaintreeNetworks

## Product Images:
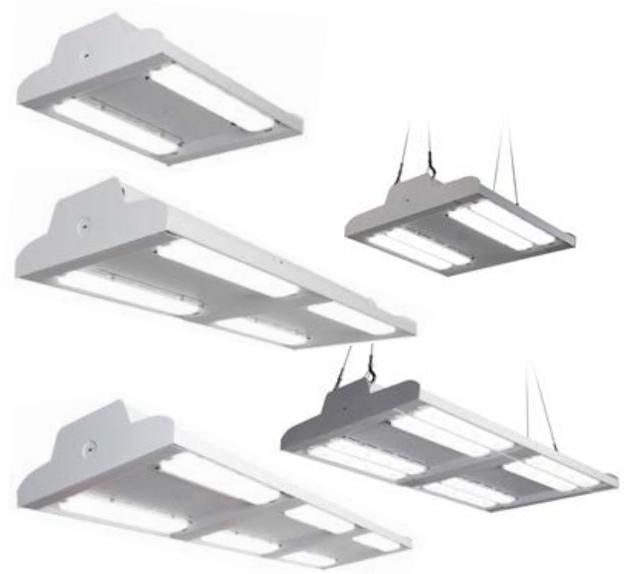
Product Dimensions:

9T, 9H, 12T, 12H, & 18T Output 1S-Module

13.75 in.

Max. Weight: 10 lbs.

10.88 in.

3.46 in.
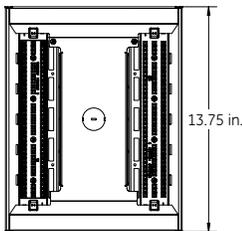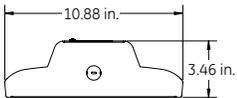
Side View

36T & 36H Output 2S-Module

27.30 in.
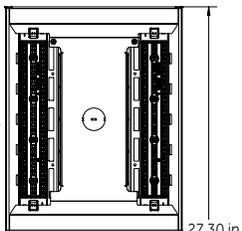
Max. Weight: 20 lbs.

48T & 48H Output 3S-Module

40.85 in.
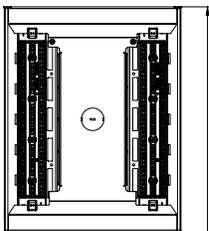
Max. Weight: 30 lbs.

18H, 24T, & 24H Output 1D-Module

13.75 in.

15.58 in.

3.46 in.
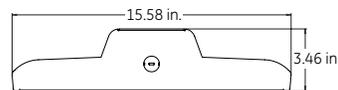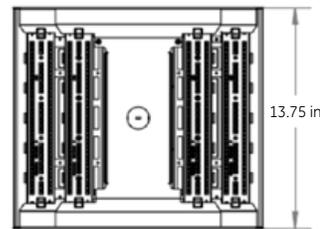
Side View

Max. Weight: 11 lbs.

60T & 60H Output 2D-Module

27.30 in.
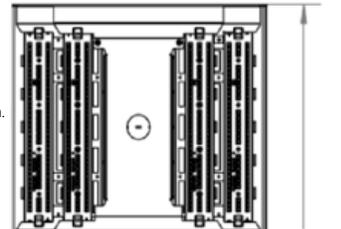
Max. Weight: 22 lbs.

Certifications:

c(UL)us LISTED

DESIGNED & ASSEMBLED IN THE USA

current
powered by GE

GE

Ordering Number Logic
Industrial High Bay & Low Bay Lighting
(ABV3-Series)

A B V 3 _ _ _ _ _ _ _ _ _ _ _ _ _ W _ _ _

PRODUCT ID	VOLTAGE	LUMEN OUTPUT	PERFORMANCE LEVEL	LED COLOR TEMP	OPTICS/ LENS	SENSOR/ WIRELESS	CONTROL WIRING	MOUNTING	CORD	PLUG	FINISH	OPTIONS
ABV3 = Albeo Highbay ABV 3rd Gen	**0** = 120/277 **1** = 120* **2** = 208* **3** = 240* **4** = 277* **5** = 480* **D** = 347* *Specify single voltage if plug, sensor, or wireless needed.	**09** = 9,000 **12** = 12,000 **18** = 18,000 **24** = 24,000 **36** = 36,000 **48** = 48,000 **60** = 60,000	**T** = Standard Efficiency **H** = High Performance	**70 Plus CRI** **47** = 4000K **57** = 5000K **80 Plus CRI** **38** = 3000K **C8** = 3500K **48** = 4000K **58** = 5000K **90 Plus CRI** **49** = 4000K **C9** = 3500K	**Open Optic** Max. Efficiency **1Q** = 120° No Lens **9Q** = 90° No Lens **Clear Lens:** Moderate Glare Reduction **1C** = 120° Clear Lens **9C** = 90° Clear Lens **5C** = 55° Clear Lens **3C** = 30° Clear Lens **Diffused Lens:** Maximum Glare Reduction **1D** = 120° Diffused Lens **9D** = 90° Diffused Lens **5D** = 55° Diffused Lens **3D** = 30° Diffused Lens	**Q** = None **A** = Occ Sense On/Off 360° LSXR **B** = Occ Sense High-Low Dimming 360° LSXR **P** = Daylight Sense w/ Occupancy On/Off LSXR **Full Featured** **2** = Motion Sensor w/ Daylight, High-Low Dimming, and IR Remote Adjustable (IR remote sold separately to modify default settings) **ZigBee Wireless Daintree™** **4** = Wireless ZigBee Daintree™ Enabled w/ Motion Sensor **T** = Wireless ZigBee Daintree™ Enabled (no sensor)	**V** = 0-10V Control Wires **Q** = None/ No External Control Wiring **Note:** V option not available with dimming and ZigBee sensors	**ST** = Standard **22** = 1/2" Threaded rod mount kit **Rod and nuts not included** **SM** = Surface Mount **Hardware not included** **23** = 3/4" Pendant Mount Kit **3/4" conduit not included** **41** = Y-Cable/ Hook 5 ft. **42** = Y-Cable/ Hook 10 ft. **43** = Y-Cable/ Hook 15 ft. **44** = Y-Cable/ Hook 20 ft.	**K** = Knockout **A** = 6 ft. 18ga cord **B** = 12 ft. 18ga cord **C** = 15 ft. 18ga cord **D** = 20 ft. 18ga cord **J** = 30ft 18ga cord **F** = 10ft Reloc **G** = 15ft Reloc **M** = 3ft Plug & Go **H** = 10ft Plug & Go	**Q** = None **A** = 15A straight plug **B** = 20A straight plug **C** = 15A twist lock plug **D** = 20A twist lock plug **S** = Reloc OCS (use cord F or G) **F** = Plug & Go (use cord M or H)	**W** = White Powder Coat	**Blank** = No Special Options **1PK** = Single Pack for distributor stocking. Default is Job Pack. **EL1** = 120° Battery Backup* **EL5** = 50° Battery Backup* *Battery Backup not available for 347V/480V

LUMEN PACKAGE	OUTPUT LEVEL	70 CRI @ 4000K OR 5000K CCT					MODULE BODY
		TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120-277V		
			120-277V	347/480V			
09	T	9,000	50	52	180		1S
09	H	9,000	46	48	196		1S
12	T	11,900	68	70	175		1S
12	H	11,900	61	63	195		1S
18	T	17,600	109	110	161		1S
18	H	17,600	88	91	200		1D
24	T	23,400	137	139	171		1D
24	H	23,400	122	124	192		1D
36	T	35,500	221	222	160		2S
36	H	35,500	190	194	187		2S
48	T	47,400	284	291	167		3S
48	H	47,400	248	257	191		3S
60	T*	58,500	360	367	163		2D
60	H	58,500	314	323	186		2D

*All packages are 55°C rated with the exception of 60T which is 45°C ambient max rated

CRI	CCT	T OUTPUT	H OUTPUT
70	5000K	100%	100%
	4000K	100%	100%
80	5000K	95%	98%
	4000K	92%	92%
	3500K	90%	92%
	3000K	87%	92%
90	4000K	81%	79%

OPTIC CODE	OPTIC DESCRIPTION	OUTPUT
1Q	120° No Lens	100%
9Q	90° No Lens	98%
1C	120° Clear Lens	98%
9C	90° Clear Lens	96%
5C	55° Clear Lens	96%
3C	30° Clear Lens	97%
1D	120° Diffused Lens	93%
9D	90° Diffused Lens	91%
5D	55° Diffused Lens	92%
3D	30° Diffused Lens	95%

Albeo™ LED Luminaire
LED High Bay Lighting
(ABV3 - Series)

LED & Optical Assembly

CRI: 70 & 80 Standard (90 contact factory for lead-time)
Rated Lumen Depreciation: L70 @ 100,000 hrs
TM-21 Calculation at 25°C: L70 @ 250,000 hrs minimum
L90 @ 65,000 hrs minimum
Distribution/Lenses:
90, 120 degrees no lens standard (most efficient)
30, 55, 90, 120 degrees w/clear lens optional
30, 55, 90, 120 degrees w/diffused lens optional

Wire Guard Option – WG1 for added fixture protection. Ships separately for ease of fixture install. Easily field installable.

Electrical

Input Voltage: 120-277V, 347V or 480V
Input Frequency: 50/60Hz
System Power Factor (PF): >0.9*
Total Harmonic Distortion (THD): <20%*
LED Driver Type: Class 1, 3kV surge protection
EMI: FCC CFR Title 47 Part 15, Class A
PF and THD may vary with options

Ratings & Evaluations

Operating Temperature: –30°C to +55°C (-22°F to 131° F).
Storage Temperature: -40°C to +70°C
Surge Protection: 3kV driver surge protection
Location: UL 1598 Suitable for Damp Locations
Safety: UL/cUL Listed ⓤ/ⓒⓤ
Environmental: RoHS compliant
Utility: DLC Premium on all 70CRI options & select 80CRI options. DLC Premium on all H Output options.

Meets DLC Standard on all CRI versions
Please refer to:
http://www.designlights.org/QPL
for complete information.

Construction & Finish

Housing: Combination steel and aluminum
Lensing: Polycarbonate diffused, acrylic clear
Reflector: White highly reflective polycarbonate
Paint: Powercoat Painted Housing
No glass in housing or lenses
Weight: 10-11lbs per module (see dimensional drawings)

Controls

Standard Dimming: 0-10VDC
Minimum Dimming: Dim down to 10%
Wireless Networking & Sensing:
ZigBee Wireless Daintree with Occ Sensor – Sensor 4
ZigBee Wireless Daintree with No Sensor – Sensor T
Enlighted Sensor – Sensor 5
Wattstopper FSP Series Motion + daylight + IR config (IR remote sold separately) – Sensor 2
Wattstopper FSP remote = SKU# SWI0100
Sensor Switch LSX LSXR Series - Sensor A, B, P, or S

Mounting

Typical Mounting: Standard Chain/Cable mount ready Threaded rod kit, ¾" pendant mount kit, and surface mount* optional.
 *Max. temperature rating reduced by 5°C
Cord & Plugs:
Standard = knockout access (no cord, no plug)
6ft, 12ft, 15ft, 20ft, 30ft Cord options
15A, 20A, Straight or twist lock plug – Plug A,B,C, or D
Reloc OCS Cord and Plug – Cord-Plug FS or GS
PlugNGo Plug - Cord-plug MF or HF

Accessories, Options & Packaging

Optional Emergency Battery: Provides 90-minutes of Emergency lighting. Design lumen output: 1650-1750lm. Fully independent LED system that does not degrade performance or ratings of the fixture. 120-277V Only
Ships separately from fixture to avoid shipping damage.

Standalone EMBB: Order as field installed aftermarket or standalone solution for emergency Lighting. 2lbs
SKU# 93059499 - ASM2430 50° beam 1750lm
SKU# 93059499 - ASM2429 120° beam 1650lm

Packaging: Standard packaging is job pack / bulk pack consisting of 1 to 3 fixtures per package reducing unpack time at the jobsite.
Single Pack (for stocking) – Option 1PK

Design Life & Warranty

- **Reliability Testing:** Fixture components designed to exceed 100,000 hrs. of operation. Complete system evaluated at extreme conditions and monitored during production.
- **System Warranty:** 5 Year

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