ALBEO

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____



ABV4 Series

LED HIgh Bay Lighting

The **Albeo® ABV4** 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 fixtures with unmatched reliability and quality. Now with integral Daintree® sensors and controls. See optic **N1** for aisle distribution!

CONSTRUCTION

Housing:	Combination steel and aluminum
Lens:	Polycarbonate, Acrylic
Paint:	Powder coat painted housing No glass in housing or lenses
Weight:	10–11 lbs (4.55–4.99 kg) per module *(see dimensional drawings)*
Optical Assembly:	Polycarbonate reflective optics with optional lens

OPTICAL SYSTEM

Distribution:	Wide, Wide Diffused (reduce Glare), Medium and Narrow
Lumens:	9,000–90,000
Efficacy:	167 - 197 LPW typical
CCT:	3000K, 3500K, 4000K, 5000K
CRI:	70, 80, & 90

ELECTRICAL

Input Voltage:	120V–277V, 347V, & 480V
Input Frequency:	50/60Hz
LED Driver Type:	Designed to exceed 100,000 hrs of operation at worst possible rated conditions
Power Factor (PF)*:	>0.9*
Total Harmonic Distortion (THD)*:	<20%*
Surge Protection:	Tested per ANSI C136.2-2015 • 6kV surge protection, standard for Lumen Output '24' and higher • 3kV surge protection, Lumen Output '18' and lower
EMI:	FCC CFR Title 47 Part 15, Class A

* PF and THD may vary with options

CONTROLS

Dimming:	Standard 0–10VDC,10%
Controls:	High-end trim, occupancy and ambient light detection with dimming available. Wireless Daintree® options available.
Listing	DLC 5.1 LLC: Integrated/embedded networked lighting controls, luminaire-level lighting control (LLLC)

LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	–30°C to +55°C (–22°F to 131°F)
STORAGE TEMPERATURE	–40°C to +70°C (–40°F to 158°F)

LUMEN MAINTENANCE

ESTIMATED LXX(10K) @ HRS 250,000 HR AT 25°C	REPORTED LXX(10K) @ HRS 65,000 HR AT 25°C	LXX(10K) @ HOURS 100,000 HR AT 55°C
L70	L90	L70

MOUNTING & ACCESSORIES

- **Typical Mounting:**
  - Standard Chain/Cable mount ready
  - Threaded rod kit & Surface mount optional
  - Pendant mount kit optional
- **Standard:** Knockout access (no cord, no plug)
- **Cord & Plugs:**
  - 6 ft, 12 ft, 15 ft, 20 ft cord options
  - 5A, 20A, Straight or twist lock plug
  - Reloc OCS Cord-Plug FS or GS
  - Plug-N-Go Cord-Plug MF or HF
- **Wire Guard Option Available**
- **Integral and Accessory EMBB Options Available**

DESIGN LIFE & WARRANTY

- **Reliability Testing:** Fixture components designed to exceed 100,000 hrs of operation at the worst possible rated conditions. Please refer to the DLC QPL website for the latest and most complete information: http://www.designlights.org/QPL
- **Certification:** UL/cUL Listed, RoHS
- **Packaging:** Standard job pack contain 7–21 fixtures. Orders of <14 are typically single pack. 90T & 90H are bulk pack only.
- **Current's Limited 5-year Warranty:** See website
- **Rated:** IP20, Damp
- Certain airborne contamimants can reduce integrity of acrylic material and LEDs and may negatively affect the functioning of the LEDs and other electronic components, depending on factors such as concentration levels, ventilation and temperature. (Contact manufacturer for list of substances)

BAA (-BAA Option) BABA (-BABA Option) Daintree WIRELESS CONTROLS QuickShip DIMMABLE 5 YEAR WARRANTY RoHS COMPLIANT UL CERTIFIED DLC LISTED DLC LISTED PREMIUM

DLC Premium on select configurations. Call factory for details

QS10

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ALBEO

ABV4 Series

LED HIgh Bay Lighting

Ordering Information

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

Light Gray Shading = Service Program QS10 Limit of 800 Luminaries

ABV4 _ _ _

ALBEO

ABV4 Series

LED HIgh Bay Lighting

Ordering Information

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

70 CRI @ 4000K OR 5000K CCT							
LUMEN PACKAGE	TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120–277V	TYPICAL LPW 347V	MODULE BODY	TYPICAL LUMEN IN EMERGENCY MODE
		120–277V	347/480V				
09	9,000	46	48	197	188	1S	3755
12	12,000	61	63	196	190	1S	3794
15	15,000	78	79	192	189	1S	3789
18	18,000	97	95	187	190	1S	3800
24	24,000	135	133	178	181	1S	3614
30	29,000	173	171	167	170	1S	3401
36	36,000	194	192	184	187	2S	3747
48	48,000	271	266	177	180	2S	3603
60	60,000	319	314	188	191	2D	3822
72	72,000	370	364	195	198	3D	3959
90	90,000	477	470	189	192	3D	3832

LPW/LUMEN SPECS BASED ON WIDE DISTRIBUTION

De-rate 5°C for “SM” Surface Mount Option

Add 7W for "E20" option and 10W for "E20" with 347/480V input. (Charging Load)

NEMA PLUG TYPE				
VOLTAGE	A (15A STRAIGHT)	B (20A STRAIGHT)	C (15A TWIST LOCK)	20D (1 A TWIST LOCK)
120	5-15P	5-20P	L5-15P	L5-20P
277	7-15P	7-20P	L7-15P	L7-20P
347	24-15P	24-20P	N/A	L24-20P
480	N/A	N/A	N/A	L8-20P

FIELD INSTALLABLE 20W BATTERY KITS*	
ORDERING SKU	ABV BODY SIZE
93313452	1S
93313453	2S, 2D, 3D

*Emergency battery pack options are California Energy Commission (CEC) Title 20 compliant

OPTIC CODE	OPTIC DESCRIPTION	OUTPUT
W1	120° No Lens	100%
WD	120° Diffused Lens	93%
M1	55° Textured Diffused Lens	94%
N1	30° Textured Diffused Lens	95%

CRI	LUMENS	CCT	LUMEN PACKAGE OUTPUT
70	All Lumen	4000	100%
		5000	100%
80		5000	92%
		4000	92%
		3500	90%
		3000	87%
90		3500	81%
		4000	83%

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ALBEO

ABV4 Series

LED HIgh Bay Lighting

Mounting & Accessory Options

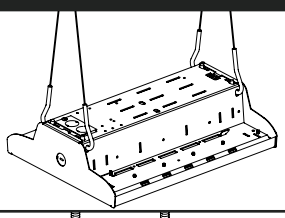
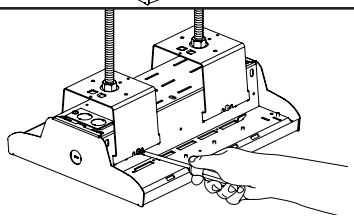
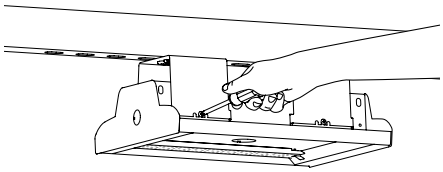
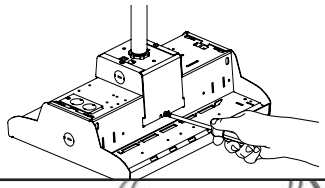
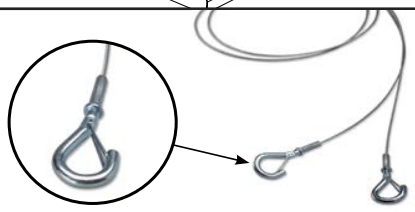
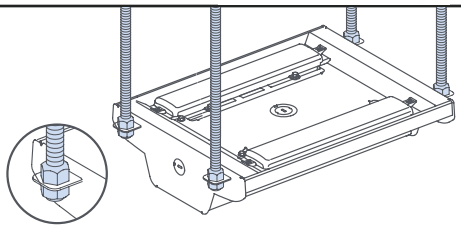
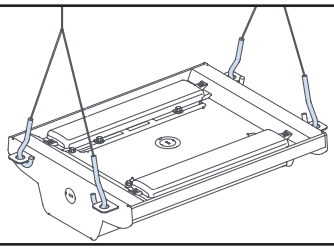
CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

MOUNTING AND ACCESSORIES:

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTERMARKET ORDER LOGIC
Standard Chain/ Cable Mount Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.		**ST =** Standard (No chain or mounting hardware included)	**Aftermarket:** NA
Rod Mount (optional) Available on all fixture configurations. Attaches to ½" threaded rod (rod and nuts not included).		**22 =** ½" Threaded Rod Kit	**SKU:** 93120346G **Description:** ½" Surface Mounting Kit **NOTE:** Kit included two (2) brackets.
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		**SM =** Surface Mount	
Pendant Mount (optional) Available on all fixture configurations. Attaches to ¾" threaded conduit. (conduit not included).		**23** = ¾" Pendant Mount Kit	**SKU:** 93120347G **Description:** ¾" Pendant Mounting Kit
Y-Cable w/hook (optional) Use with Standard Mounting Option only. Order separately. Price adder per pair. 5 ft., 10 ft., 15 ft., 20 ft. lengths available.			**(41) Y-Cable/Hook 5ft:** 93075756G **(42) Y-Cable/Hook 10ft:** 93075552G **(43) Y-Cable/Hook 15ft:** 93075553G **(44) Y-Cable/Hook 20ft:** 93075554G
Standard Inverted Mount Available on all fixture configurations Attaches to ⅜" threaded rod (rod not included)		**UP** = Standard Inverted Mount	**Aftermarket:** NA **NOTE:** Dimensions center hole to center hole of inverted mount are: **Single-Wide (1S, 2S, 3S housings):** Width 7.4" **Double-Wide (1D, 2D, 3D housings):** Width 12.06" **Lengths:** 14.87" (1S/1D), 28.42" (2S, 2D), 41.97" (3S, 3D)
Inverted Y- Cable Mount		**61** = Inverted Mount Y-Cable/ Hook 5ft **62** = Inverted Mount Y-Cable/ Hook 10ft **63** = Inverted Mount Y-Cable/ Hook 15ft **64** = Inverted Mount Y-Cable/ Hook 20ft	**Aftermarket:** NA **NOTE:** Dimensions center hole to center hole of inverted mount are: **Single-Wide (1S, 2S, 3S housings):** Width 7.4" **Double-Wide (1D, 2D, 3D housings):** Width 12.06" **Lengths:** 14.87" (1S/1D), 28.42" (2S, 2D), 41.97" (3S, 3D)

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ALBEO

ABV4 Series

LED HIgh Bay Lighting

Accessory & Renewal Parts

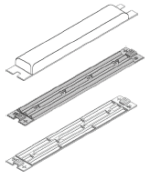
CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

REPLACEMENT LENSES & OPTICS:



ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93075866G	Wide Diffused Lens Kit	Optics = WD	Diffused Lens Only (2 Lenses) *does not change beam angle
93075989G	Reflector Optic Kit	Optics = WD	120 Degree Optic (2 White Reflectors)
93117671G	M1 Optic Kit	Optics = M1	Textured Diffused 55 degree Optic (2 Refractors)
93117672G	N1 Optic Kit	Optics = N1	Textured Diffused 30 Degree Optic (2 Refractors)

Check fixture images on pg. 1 to determine how many optics are needed based on housing type.
Example: 60T lumen code = '2D' housing = 8 lenses and/or optics needed = 4 kits

WIRE GUARDS:

ABV BODY SIZE	SAP #	SAP DESCRIPTION
ABV 1S	93318569	CUR HB WG 2 10 PK
ABV 1S + End Mount Sensor	93318570	CUR HB WG 2 SMS 10 PK
ABV 2S	93318571	CUR HB WG 3 10 PK
ABV 2S + End Mount Sensor	93318572	CUR HB WG 3 SMS 10 PK
ABV 2D	93318573	CUR HB WG 4 5 PK
ABV 2D + End Mount Sensor	93318574	CUR HB WG 4 SMS 5 PK
ABV 3D	93318575	CUR HB WG 5 5 PK
ABV 3D + End Mount Sensor	93318576	CUR HB WG 5 SMS 5 PK

*SMS = Use with end mount sensor.
Controls Option Codes QA, QB, AP use end mount sensor.
If sensor is end mounted, order wireguard for fixture body size with 'SMS' in description.

All highbay wireguards are priced as single accessories and must be ordered as single accessories. Standard packaging is a master carton containing 5 or 10 wireguards depending on fixture body size.

See Highbay Wireguard Installation Sheet for more details

FIELD SWAPPABLE WHS20 SENSOR ACCESSORIES:



ORDERING SKU	ORDERING CAT# LOGIC	DESCRIPTION
93134999G	WHS20_LOW_LENS_KIT_10	Low Lens: 2.5m (8ft) - 10pk
93135001G	WHS20_MED_LENS_KIT_10	Med Lens: 6m (20ft) - 10pk
93135003G	WHS20_HIGH_LENS_KIT_10	High Lens: 12m (40ft) - 10pk
93134985G	WHS20_SNAP_AISLE_MASK_KIT_10	Snap on Aisle Mask

NOTE: See WHS20 spec sheet for Occupancy Detection Patterns

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ALBEO

ABV4 Series

LED HIgh Bay Lighting

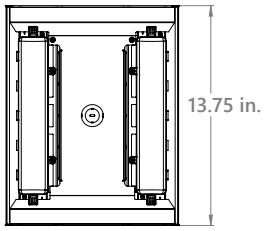
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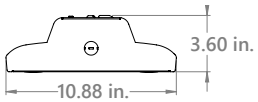
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Date _____ Type _____

Catalog Number _____

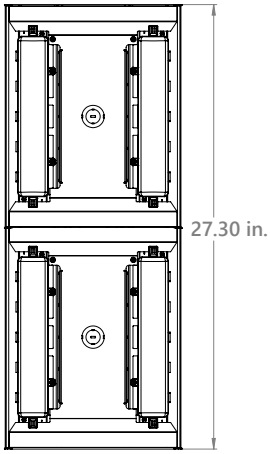
1S MODULE - 9K, 12K, 15K, 18K, 24K, 30K LUMENS

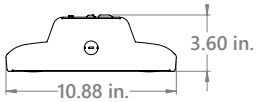




Max Weight: 10 lbs.

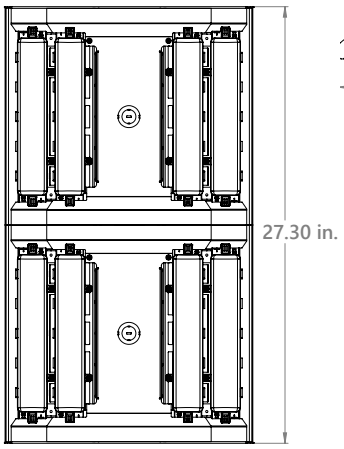
2S MODULE - 36K, 48K LUMENS

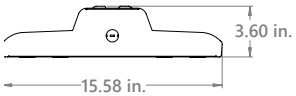




Max Weight: 20 lbs.

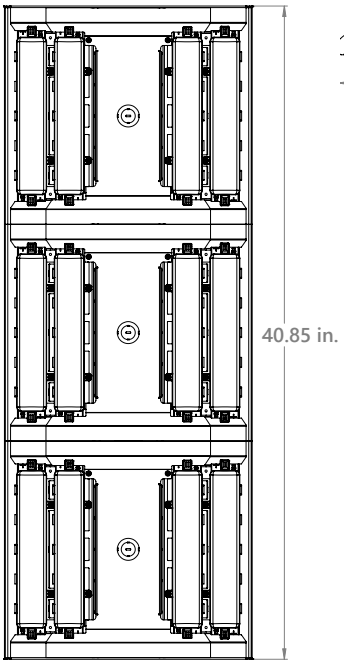
2D MODULE - 60K LUMENS

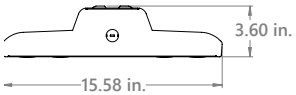




Max Weight: 22 lbs.

3D MODULE - 72K, 90K LUMENS





Max Weight: 33 lbs.

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ALBEO

ABV4 Series

LED HIgh Bay Lighting

CUSTOMER NAME _____

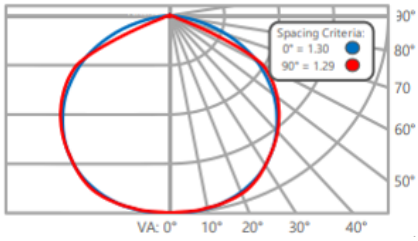
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Date _____ Type _____

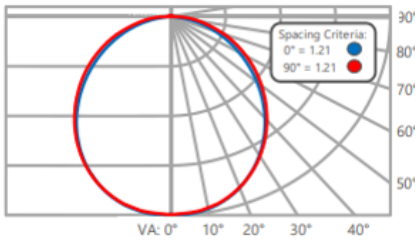
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PHOTOMETRIC DATA

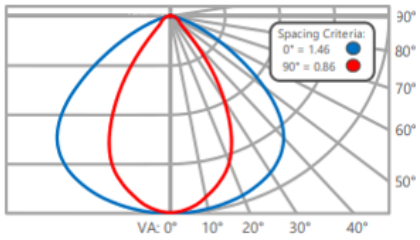
W1 = WIDE



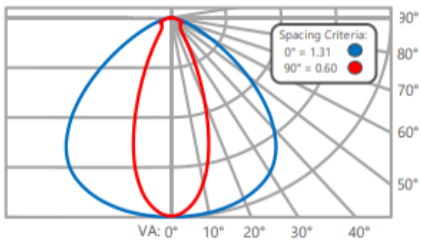
WD = WIDE DIFFUSED



M1 = MEDIUM



N1 = NARROW



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WIRELESS NETWORKING AND SENSING DEVICE OPTIONS*

- **Daintree® One:** Wireless fixture integrated sensor that is perfect for single fixtures or small area applications. Standalone wireless lighting controls that work independently. Comes preset from the factory, yet can be upgraded to Daintree EZ Connect and/or Daintree Enterprise in the future. Factory preset to shut off 20 minutes after the space is vacated of occupants. Daylight harvesting preset enabled on.

- **Daintree® EZ Connect:** Wireless fixture integrated sensor that is designed for room based controls where a group of fixtures communicate to each other and communicate wirelessly in chorus as a system. The advantage is simple, minimal field based commissioning. Factory preset to shut off 20 minutes after the space is vacated of occupants. No daylight harvesting set in initial preset. EZ Connect wireless lighting controls are set up and/or can be changed by the Daintree EZ Connect application that can be downloaded via a smart device.

- **Daintree® Enterprise:** Wireless fixture integrated sensor technology that is ideal for multisite lighting system management. System requires software and commissioning. Monitor multiple controls, lighting, energy, HVAC with unlimited potential for other (3rd party) sensor integration. “Open on the bottom” means that ZigBee communication protocol is an industry standard with countless wireless hardware sensing options. “Open on the top” means that the data from the sensors can be used by any 3rd party software supplier/developer, be it part of a complete BMS system or simple API (Application Programming Interface or “App”). Daintree Enterprise offers a complete future proof solution from any Daintree enabled installed base of fixtures.

*Contact Factory for specific option availability

WHR1 IR REMOTE



ABV4 WITH OPTIONAL DAINTREE WIRELESS WHS20 CONTROL MODULE



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