



#### 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!

## **CONTROLS**

Dimming:	Standard 0–10VDC,10%
Controls:	High-end trim, occupancy and ambient light detection with dimming available. Wireless Daintree® options available.

### LUMEN AMBIENT TEMPERATURE

ТҮРЕ	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	REPORTED LXX(10K) @ HRS	LXX(10K) @ HOURS
250,000 HR AT 25°C	65,000 HR AT 25°C	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. Complete system evaluated at extreme conditions and monitored during production. Please refer to the DLC QPL website for the latest and most complete information: http://www.designlights.org/QPL
- Certification: UL/cUL Listed
- 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: Please refer to IND599 in Product Downloads section at: https://products.gecurrent.com



## CONSTRUCTION

Combination steel and aluminum
Polycarbonate diffused, acrylic clear
Powder coat painted housing No glass in housing or lenses
10–11 lbs (4.55–4.99 kg) per module (see dimensional drawings)
Polycarbonate reflective optics with optional lens

## **OPTICAL SYSTEM**

Wide, Wide Diffused (reduce Glare), Medium and Narrow
9,000-90,000
167 - 197 LPW typical
3000К, 3500К, 4000К, 5000К
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
	<ul> <li>6kV surge protection, standard for Lumen Output '24' and higher</li> <li>3kV surge protection, Lumen Output '18' and lower</li> </ul>
EMI:	FCC CFR Title 47 Part 15, Class A
	* PF and THD may vary with option



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# ABV4 Series

LED HIgh Bay Lighting

## **Ordering Information**

## ABV4

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			-			-			-	-
PRODUCT ID	VOLTAGE	LUMEN OUTPUT	CCT/CRI	OPTICS/LENS	CONTROLS	MOUNTING	CORD <sup>1</sup>	PLUG <sup>2</sup>	FINISH	OPTIONS
ABV4 = Albeo* Highbay ABV 4 <sup>™</sup> Gen	0 = 120-277 1 = 120 4 = 277 D = 347 5 = 480	09 = 9,000lm 12 = 12,000lm 15 = 15,000lm 18 = 18,000lm 24 = 24,000lm 36 = 36,000lm 48 = 48,000lm 60 = 60,000lm 72 = 72,000lm 90 = 90,000lm	70 Plus CRi 47 = 4000k 57 = 5000k 80 Plus CRi 38 = 3000k C8 = 3500k 48 = 4000k 58 = 5000k 90 Plus CRi C9 = 3500k 49 = 4000k	Lens WD = 120° Diffused M1 = 55° Diffused	QQ = Dimming leads not externally accessible QV = 0-10V Dimming Daintree* Networked: NA = Occupancy & Ambient Light Sensor, w/ Continuous Dimming (full feature) TQ <sup>3</sup> = Wireless Daintree* Enabled (no sensor) Daintree* IZ Connect: DF = Occupancy & Ambient light sensor w/ Continuous Dimming Daintree* One: FB = Occupancy & Ambient Light Sensor with Continuous Dimming 3ª Party Options <sup>4</sup> : QA = Occupancy Sensor On/Off 360° LSXR, No External Wiring 360° LSXR QP = Daylight Sensor w/occupancy On/Off LSXR, No External Wiring, Full Featured	<ul> <li>ST = Standard</li> <li>SM = Surface Mount</li> <li>22 = 1/2" Threaded rod mount kit (Rod and nut not included)</li> <li>23 = 3/4" Pendant Mount Kit</li> <li>41 = Y-Cable/ Hook 5ft.</li> <li>42 = Y-Cable/ Hook 10ft.</li> <li>43 = Y-Cable/ Hook 15ft.</li> <li>44 = Y-Cable/ Hook 20ft.</li> </ul>	K = Knockout A = 6ft. 18ga black cord B = 12ft. 18ga black cord C = 15ft. 18ga black cord D = 20ft. 18ga black cord Specialty M Cord Sets <sup>2,1</sup> FS = Reloc White Cord GS = Reloc White Cord MF = Plug-1 18ga Black HF = Plug-1 18ga Black LE <sup>9</sup> = ACS - Flex3 + 10ft 277/480 #1 NE <sup>9</sup> = ACS	B = 20A Straight Plug C = 15A Twist Lock Plug D = 20A Twist Lock Plug D = 20A Twist Lock Plug 10ft 18ga 15ft 18ga 15ft 18ga N-Go - 3ft. Cord N-Go - 3ft. Cord N-Go - 10ft. Cord MC 2EA 10-LW 6AWG - MC 2EA 12-LW	WHITE = White BLCK = Black	Blank = No Special Options 1PK = Single Pack for distributor stocking. Default is Job Pack (7–21). E2056-10.11 Elmergency Unit 20W GTD <sup>7</sup> = Generator Transfer Device WC = White Cord

1 3-conductor cords. Dimming leads separate if controls option QV is selected. Contact factory if 5-conductor cord is needed.

2 Must specify discrete voltage. See NEMA Plug Type Table.

3 TQ not available with 72/90 Lumen or D/5 Voltage.

4 QA, QB, QP not available with 72/90 Lumen.

5 Emergency unit and 347/480VAC version not available with mounting SM and 23.

6 Contact manufacturer for specialty and regular cord feasibility

7 GTD only available with 120/277

- 8 Contact factory for lead-time.
- 9 Available with Voltage 4 or 5 only
- 10 Not available with GTD
- 11 Only available with Single Pack
- 12 QB not available with 480V

#### NOTE:

See WHS20 spec sheet for default program parameters and occupancy detection patterns.

- Daintree Wireless Controls can be upgraded over time for greater functionality.
- WHR1 Remote PN: 93131632
- Daintree EZ Connect App can be downloaded on the Apple® App Store.
- 40ft (12m) mounting height.

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## ABV4 Series LED HIgh Bay Lighting Ordering Information

70 CRI @ 4000K OR 5000K CCT							
	TYPICAL						TYPICAL
LUMEN PACKAGE	DELIVERED LUMENS	120–277V	347/480V	TYPICAL LPW TYPICAL LPW 120–277V 347V		MODULE BODY	LUMEN IN EMERGENCY MODE
09	9,000	46	48	197	188	1S	3755
12	12,000	61	63	196	190	15	3794
15	15,000	78	79	192	189	15	3789
18	18,000	97	95	187	190	15	3800
24	24,000	135	133	178	181	15	3614
30	29,000	173	171	167	170	15	3401
36	36,000	194	192	184	187	25	3747
48	48,000	271	266	177	180	25	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

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OPTIC CODEOPTIC DESCRIPTIONOUTPUTW1120° No Lens100%WD120° Diffused Lens93%M155° Textured Diffused Lens94%N130° Textured Diffused Lens95%

CRI	LUMENS	сст	LUMEN PACKAGE OUTPUT
70		4000	100%
70	All Lumen	5000	100%
		5000	92%
80		4000	92%
80		3500	90%
		3000	87%
00		3500	81%
90		4000	83%



**ABV4** Series LED High Bay Lighting

## Mounting & Accessory Options

## **MOUNTING AND ACCESSORIES:**

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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.		<b>ST =</b> Standard (No chain or mounting hardware included)	Aftermarket: NA
<b>Rod Mount (optional)</b> Available on all fixture configurations. Attaches to 1/2" threaded rod (rod and nuts not included).		<b>22 =</b> ½" Threaded Rod Kit	SKU: 93120346 Description: ½" Surface Mounting Kit
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		<b>SM =</b> Surface Mount	NOTE: Kit included two (2) brackets.
Pendant Mount (optional) Available on all fixture configurations. Attaches to ¾" threaded conduit. (conduit not included).		<b>23</b> = ¾" Pendant Mount Kit	<b>SKU:</b> 93120347 <b>Description:</b> 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: 93075756 (42) Y-Cable/Hook 10ft: 93075552 (43) Y-Cable/Hook 15ft: 93075553 (44) Y-Cable/Hook 20ft: 93075554
Standard Inverted Mount Available on all fixture configurations Attaches to ¾" threaded rod (rod not included)		<b>UP</b> = 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		<ul> <li>61 = Inverted Mount Y-Cable/ Hook 5ft</li> <li>62 = Inverted Mount Y-Cable/ Hook 10ft</li> <li>63 = Inverted Mount Y-Cable/ Hook 15ft</li> <li>64 = Inverted Mount Y-Cable/ Hook 20ft</li> </ul>	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)

# Current

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**ABV4** Series LED High Bay Lighting

Accessory & Renewal Parts

## **REPLACEMENT LENSES & OPTICS:**

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	ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
	93075866	Wide Diffused Lens Kit	Optics = WD	Diffused Lens Only (2 Le *does not change beam ang
AND AND	93075989	Reflector Optic Kit	Optics = WD	120 Degree Optic (2 White I
light second sec	93117671	M1 Optic Kit	Optics = M1	Textured Diffused 55 degree Opti

93075866	Wide Diffused Lens Kit	Optics = WD	Diffused Lens Only (2 Lenses) *does not change beam angle
93075989	Reflector Optic Kit	Optics = WD	120 Degree Optic (2 White Reflectors)
93117671	M1 Optic Kit	Optics = M1	Textured Diffused 55 degree Optic (2 Refractors)
93117672	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:**

	ORDERING SKU	DESCRIPTION	
aa	93077600	1S Wire Guard White Painted - 5pk	
	93077602	2S Wire Guard White Painted - 5pk	
	93077604	3S Wire Guard White Painted - 5pk	
	93077668	2D Wire Guard White Painted - 5pk	

## FIELD SWAPPABLE WHS20 SENSOR ACCESSORIES:

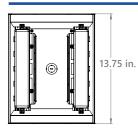


ORDERING SKU	ORDERING CAT# LOGIC	DESCRIPTION
93134999	WHS20_LOW_LENS_KIT_10	Low Lens: 2.5m (8ft) - 10pk
93135001	WHS20_MED_LENS_KIT_10	Med Lens: 6m (20ft) - 10pk
93135003	WHS20_HIGH_LENS_KIT_10	High Lens: 12m (40ft) - 10pk
93134985	WHS20_SNAP_AISLE_MASK_KIT_10	Snap on Aisle Mask

NOTE: See WHS20 spec sheet for Occupancy Detection Patterns



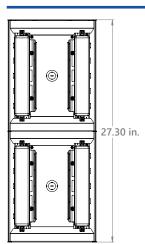
## 1S MODULE - 9K, 12K, 15K, 18K, 24K, 30K LUMENS

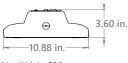


 Omega
 3.60 in.

 10.88 in.
 10.88 in.

## 2S MODULE - 36K, 48K LUMENS





Max Weight: 20 lbs.

#### **CUSTOMER NAME**

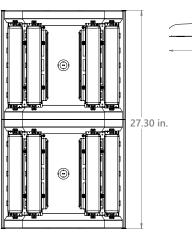
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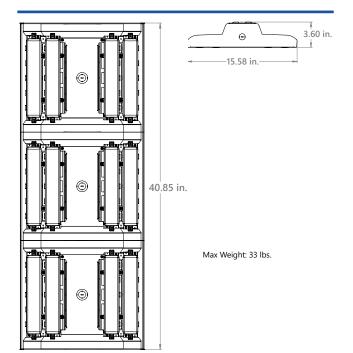
## 2D MODULE - 60K LUMENS



⊖ 3.60 in. 15.58 in.

Max Weight: 22 lbs.

3D MODULE - 72K, 90K LUMENS



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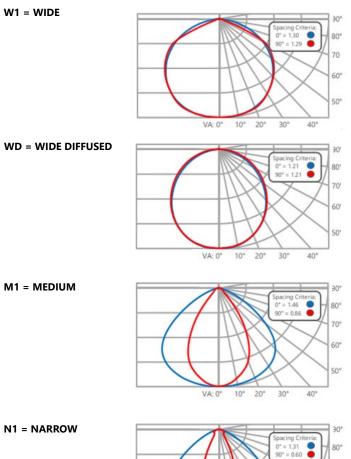
Date \_\_\_\_

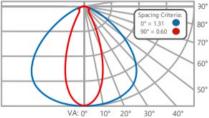
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h Bay Lighting

## **PHOTOMETRIC DATA**







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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<sup>®</sup> 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

