ALBEO

CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

Albeo® ABN1 Series

LED High Bay Lighting

The **Albeo® ABN1** LED luminaire is a versatile NSF rated fixture capable of 9,000–28,000 lumens with excellent color rendering. Ideal for high and low bay applications in food packaging and clean facilities, the ABN1 is designed to replace 150W–750W HID fixtures with unmatched reliability, low-profile design and easy cleaning.

CONSTRUCTION

Housing:	Cast A360 Aluminum
Lens:	Polycarbonate
Paint:	Powder coat painted housing.
Weight:	16lb (7.25kg)
Optical Assembly:	LED Optic array with refractive lens

OPTICAL SYSTEM

Lumens:	9000 - 28000
Distribution:	120°, 90°, or 60° clear and 120° diffused lens options
Efficacy:	Up to 165 LPW
CCT:	3000K, 3500K, 4000K, 5000K
CRI:	80 & 90

ELECTRICAL

Input Voltage:	120–277 V, 347 V, & 480 V
Input Frequency:	50/60Hz
Power Factor (PF)*:	>90%*
Total Harmonic Distortion (THD)*:	<20%*
EMI:	FCC CFR Title 47 Part 15, Class A
Surge Protection:	3kV driver surge protection
LED Driver Type:	Class 1

* PF and THD may vary with options

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

LXX (10K) @ HOURS 100,000 HR
L70

MOUNTING

- **Typical Mounting:** ¾" NPT pendant mount, chain/cable mount, threaded rod mount, surface mount, hook/loop mount, and Y-cable with hook (compatible with chain/cable option only)
- **Cord & Plugs:** Knockout Access—no cord, no plug, available with 23 (Pendant) mounting only 6 ft, 12 ft, 20 ft cord options. 15A & 20A available in straight or twist lock plug (Damp rated)

ADDITIONAL NOTES

- UL 1598 Suitable for Wet Locations (IP65)
- **Ratings**: NSF SPLASH ZONE rated, IP69K, IP66, NEMA 4X
- **Safety:** UL/cUL Listed
- **Environmental:** RoHS compliant
- **Packaging:** Fixtures are individually packaged.

DESIGN LIFE & WARRANTY

- **Current's Limited 5-year Warranty:**
  Please refer to **ALB048** in Product Downloads section at:
  https://products.gecurrent.com

WET RATED | 5 YEAR WARRANTY | DIMMABLE | IP65 IP66 IP69 | NSF | NEMA 4X Certified | RoHS COMPLIANT | UL CERTIFIED | DLC LISTED | DLC LISTED PREMIUM

Current

LED.com

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Ordering Information:

ABN1 _____ **T** _____ **W** **1PK**

PRODUCT ID	VOLTAGE[1]	LUMEN OUTPUT	PERFORMANCE LEVEL	CRI	OPTICS/LENS	CONTROLS	MOUNTING	CORD[7]	PLUG[7]	FINISH	OPTIONS
ABN1 = Albeo® High Bay NSF 1st Gen	**0** = 120–277V **1** = 120V **4** = 277V **5** = 480V **D** = 347V	**09** = 9,000lm **12** = 12,000lm **18** = 18,000lm **24** = 24,000lm **28** = 28,000lm	**T** = Standard Efficiency	**80 Plus CRI** **38** = 3000K **C8** = 3500K **48** = 4000K **58** = 5000K **90 Plus CRI** **39** = 3000K **C9** = 3500K **49** = 4000K **59** = 5000K	**1D** = 120° Diffused **1C** = 120° Clear **9C** = 90° Clear **6C** = 60° Clear	**QQ**[7] = Dimming leads not externally accessible **QV** = 0–10V Dimming **Daintree® Networked:** **NA** = Occupancy & Ambient Light Sensor, w/ Continuous Dimming (full feature) **Daintree® EZ Connect**[4]**:** **DF** = Occupancy & Ambient light sensor w/ Continuous Dimming **Daintree® One**[5]**:** **FB** = Occupancy & Ambient Light Sensor with Continuous Dimming **Daintree® One Custom Options**[5]**:** **FF** = Occupancy w/ Continuous Dimming **FH** = Occupancy On/Off **FK** = Ambient Light Sensor w/ Continuous Dimming **FM** = Ambient Light Sensor On/Off	**22** = Rod Mount **23** = Pendant (¾' NPT) **41** = 5 ft. Y-Cable Hook **42** = 10 ft. Y-Cable Hook **43** = 15 ft. Y-Cable Hook **44** = 20 ft. Y-Cable Hook **LP** = Loop **HK** = Hook Mount **SM** = Surface Mount **ST** = Chain/Cable	**K**[2]= Knockout **A** = 6 ft. 18ga cord **B** = 12 ft. 18ga cord **D** = 20 ft. 18ga cord	**Q** = None **A** = 15A Straight **B** = 20A Straight **C** = 15A Twist Lock **D** = 20A Twist Lock	**W** = White Powder Coat	**1PK** = 1 Pack

ORDERING NOTES:

1. Specify single voltage if plug is needed.
2. K option only available with 23 (Pendant) mounting. See Cord Configuration Table.
3. See Lumen Conversion tables for detailed output and power consumption.
4. Ambient light detection functionality must be turned on in the Daintree® EZ Connect app.
5. Daintree® One devices can be customized and programmed with WHR1 remote.
6. 2Q devices can be programmed with FSP remote (SHU# 93076263G).
7. Refer to Cord Specification Table for controls / cord / plug compatibility.

CORD SPECIFICATION TABLE			
CONTROLS	CORD	PLUG	CORD COLOR
QQ	A, B, D	Q, A, B, C, D	Black 3-Conductor
QV	A, B, D	Q Only	White 5-Conductor

OPTIC CODE	OPTIC DESCRIPTION	OUTPUT
1D	120° Diffused Lens	98%
1C	120° Clear Lens	100%
9C	90° Clear Lens	99%
6C	60° Clear Lens	95%

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.

CRI / CCT CONVERSION TABLE			
CRI	CCT	LUMEN PACKAGE OUTPUT	
		09 12	18 24 28
80CRI	5000K	100%	100%
	4000K	98%	94%
	3500K	97%	94%
	3000K	93%	93%
90CRI	5000K	89%	85%
	4000K	85%	81%
	3500K	83%	80%
	3000K	81%	78%

LUMEN CONVERSION TABLE					
80 CRI @ 5000K CCT					
LUMEN PACKAGE	TYPICAL DELIVERED LUMENS	TYPICAL POWER 120–277V	TYPICAL POWER 347/480V	TYPICAL LPW 120–277V	MAX AMBIENT TEMP (°C)*
09	9,000	58	61	155	55°C
12	12,000	79	82	152	55°C
18	17,100	103	103	166	55°C
24	22,700	141	141	161	50°C
28	27,000	176	176	153	40°C

5° C derating for 0 (120–277 V), or 1 (120 V)
5° C derating for SM (Surface Mount)

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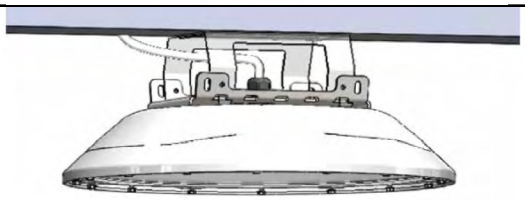
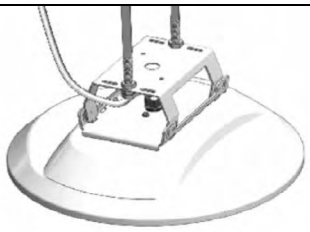
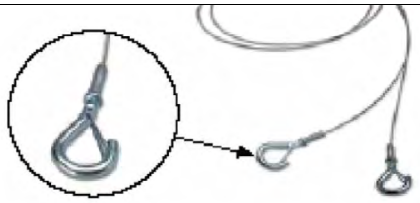
FIELD-INSTALLABLE MOUNTING AND ACCESSORY OPTIONS

MOUNTING/ACCESSORY OPTIONS	IMAGE	ORDER LOGIC CODE
Pendant Mount (Standard) Available on all fixture configurations. Attaches to ¾" threaded conduit (conduit not included).		**23** = Pendant (¾" NPT)
Hook/Loop Mount (optional) Available on all fixture configurations. Attaches to Loop or Hook.		**HK** = Hook **LP** = Loop
Chain/Cable Mount (optional) Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.		**ST** = Chain/Cable
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		**SM** = Surface Mount
Rod Mount (optional) Available on all fixture configurations. Attaches to smooth* 1/2" rod with threaded end. (rod and nuts not included). ** Fully threaded rods can be used, but are not NSF rated.*		**22** = Rod Mount
Y-Cable w/hook (optional) Use with Chain/Cable Option only.		**41** = 5 ft. Y-Cable/Hook **42** = 10 ft. Y-Cable/Hook **43** = 15 ft. Y-Cable/Hook **44** = 20 ft. Y-Cable/Hook **ST chain/cable mount included*

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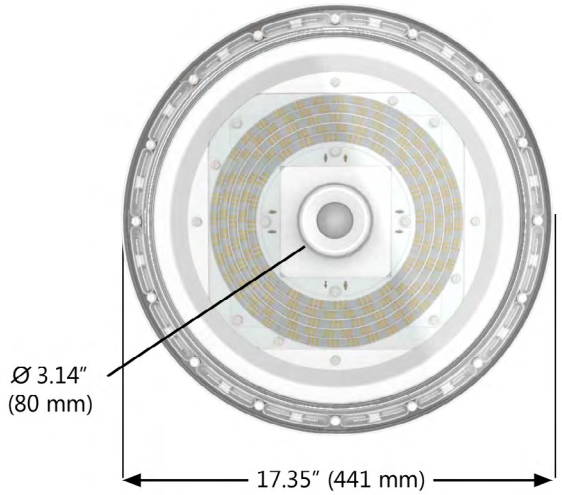
PRODUCT DIMENSIONS

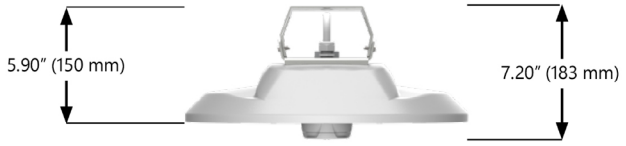


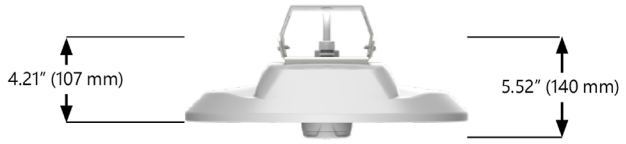
HOOK DIMENSIONS

Hook Dimensions:

LOOP DIMENSIONS

Loop Dimensions:





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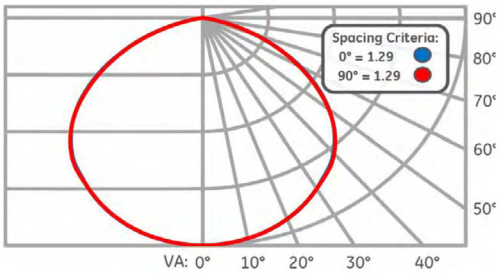
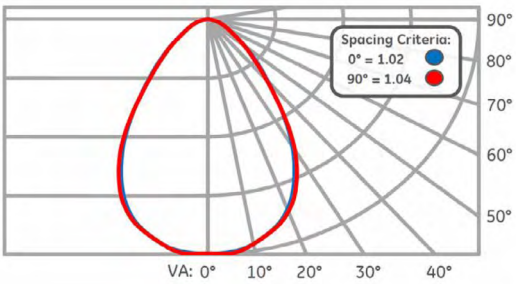
PHOTOMETRIC DATA

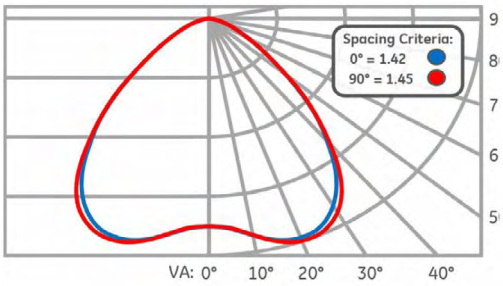
1C
120° Clear



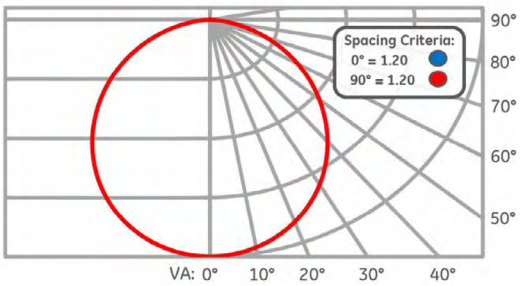
6C
60° Clear



9C
90° Clear



1D
120° Diffused



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