

Optical Assembly:



CUSTOMER NAME Project Name ___ 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 Powder coat painted housing Paint: No glass in housing or lenses 10-11 lbs (4.55-4.99 kg) per module Weight: (see dimensional drawings) Polycarbonate reflective optics

OPTICAL SYSTEM

with optional lens

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** <20%* (THD)*: Surge Protection: Tested per ANSI C136.2-2015 6kV surge protection, standard for Lumen Output '24' and higher

* PF and THD may vary with options

• 3kV surge protection, Lumen

Output '18' and lower

EMI: FCC CFR Title 47 Part 15, Class A

CONTROLS

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

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. 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)







DIMMABLE















ABV4 Series LED HIgh Bay Lighting

Ordering Information

Project Name	
Date	Type
Catalog Number	7,60

CUSTOMER NAME

ABV4

PRODUCT ID	VOLTAGE	LUMEN OUTPUT	CCT/CRI	OPTICS/LENS	CONTROLS	MOUNTING	CORD ¹	PLUG ²	FINISH	OPTIONS
ABV4 = Albeo® Highbay ABV 4 th Gen	0 = 120-277	09 = 9,000lm 12 = 12,000lm 15 = 15,000lm 18 = 18,000lm 24 = 24,000lm 30 = 30,000lm 36 = 36,000lm 48 = 48,000lm 72 = 72,000lm 90 = 90,000lm	70 Plus CRI 47 = 4000k 57 = 5000k 80 Plus CRI 38 = 3000k 48 = 4000k 58 = 5000k 90 Plus CRI C9 = 3500k 49 = 4000k	W1= 120° No Lens WD = 120° Diffused M1 = 55° Diffused 14 N1 = 30° Diffused 14	QQ = Dimming leads not externally accessible QV = 0-10V Dimming Daintree* Networked: NA = Occupancy & Ambient Light Sensor, w/ Continuous Dimming (full feature) TQ³ = Wireless Daintree* Enabled (no sensor) Daintree* EZ Connect: DF= Occupancy & Ambient light sensor w/ Continuous Dimming Daintree* One: FB = Occupancy & Ambient Light Sensor with Continuous Dimming 3rd Party Options4; QA = Occupancy Sensor On/Off 360° LSXR, No External Wiring QB¹² = Occupancy Sensor Continuous Dimming 360° LSXR QP = Daylight Sensor Worccupancy On/Off LSXR, No External Wiring, Full Featured	ST = Standard SM = Surface Mount 22 = 1/2" Threaded rod mount kit (Rod and nut not included) 23 = 3/4" Pendant Mount Kit 41 = Y-Cable/ Hook 5ft. 42 = Y-Cable/ Hook 10ft. 43 = Y-Cable/ Hook 15ft. 44 = Y-Cable/ Hook 20ft.	K = Knockout A = 6ft. 18ga black cord B = 12ft. 18ga black cord C = 15ft. 18ga black cord D = 20ft. 18ga black cord Specialty N Cord Sets 2. FS = Reloc White Cord GS = Reloc White Cord MF = Plug-18ga Black HF = Plug-18ga Black LE® = ACS - Flex3 + 10ft 2777/480 #1 NE® = ACS - Flex3 + 12ft 2777/480 #1	B = 20A Straight Plug C = 15A Twist Lock Plug D = 20A Twist Lock Plug Twist Lock Plug Straight Plug C = 15A Twist Lock Plug C = 15A Twist Lock Plug C = 10A Twist Lock Plug C	WHTE = White BLCK = Black	Blank = No Special Options 1PK = Single Pack for distributor stocking. Default is Job Pack (7–21). E208.41.011= Emergency Unit 20W GTD7 = 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 with 347/480V contact factory
- 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
- 13 WD is Polycarbonate lens
- 14 M1 and N1 are Acrylic lenses

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 ${\bf @}\,$ App Store.
- 40ft (12m) mounting height.





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Ordering Information

CUSTO	MER NAME	
Project N	lame	
Date		Туре
Catalog	Number	

	70 CRI @ 4000К OR 5000К ССТ							
	TYPICAL	YPICAL TYPICAL POWER					TYPICAL	
LUMEN PACKAGE	DELIVERED LUMENS	120-277V	347/480V	TYPICAL LPW 120–277V	W TYPICAL LPW 347V	MODULE BODY	LUMEN IN EMERGENCY MODE	
09	9,000	46	48	197	188	15	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		

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





ABV4 Series

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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.	0 11:	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
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		SM = Surface Mount	NOTE: Kit included two (2) brackets.
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 ¾" 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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Accessory & Renewal Parts

CUSTOMER NAME	
Project Name	
Date	Туре
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:



ORDERING SKU	DESCRIPTION
93077600G	1S Wire Guard White Painted - 5pk
93077602G	2S Wire Guard White Painted - 5pk
93077604	3S Wire Guard White Painted - 5pk
930776686	2D Wire Guard White Painted - 5nk

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



ABV4 Series

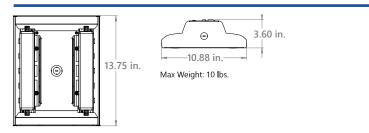
LED High Bay Lighting

CUSTOMER NAME

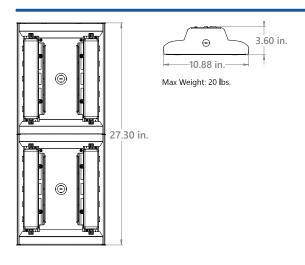
Catalog Number _

Project Name ______ Type _____

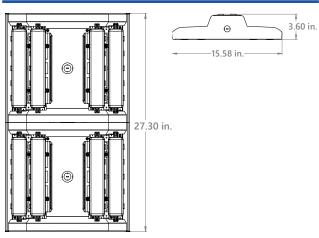
1S MODULE - 9K, 12K, 15K, 18K, 24K, 30K LUMENS



2S MODULE - 36K, 48K LUMENS

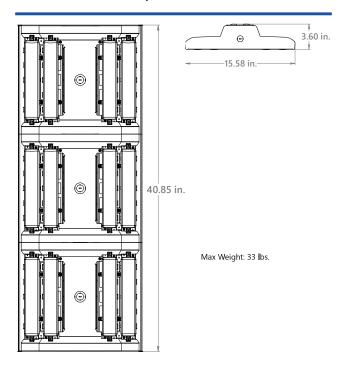


2D MODULE - 60K LUMENS



Max Weight: 22 lbs.

3D MODULE - 72K, 90K LUMENS





ABV4 Series

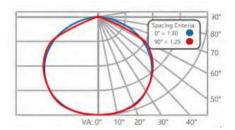
LED High Bay Lighting

CUSTOMER NAME

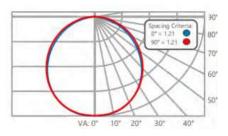
Project Name	
Date	Type
Catalog Number	,

PHOTOMETRIC DATA

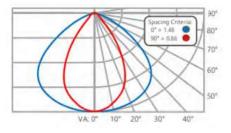
W1 = WIDE



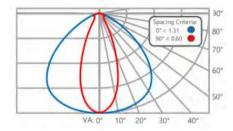
WD = WIDE DIFFUSED



M1 = MEDIUM



N1 = NARROW







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Project Name	
Date	Type
Catalog Number	

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.

WHR1 IR REMOTE









^{*}Contact Factory for specific option availability