Albeo® LED Luminaires

ABV3 Series - LED High Bay Lighting

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. Now with integral Daintree sensors and controls!

Performance Highlights:

Light Output Range: 6,500 – 90,000 lumens

CRI: 70 & 80 CRI

CCT: 3000K, 3500K, 4000K, 5000K

Distributions: 120°, 90°, 55°, 30° diffused, textured & clear lens options

Input Voltage: 120V-277V, 347V, & 480V

Efficiency: Up to 200 LPW

Fixture Rated: L70 @ 100,000 hours min. @ 55°C

Limited Warranty: 5 Years

Temperature Rating: -30°C to +55°C (-22°F to 131° F)

Controls & Sensors: 0-10V standard; Occupancy and Ambient Light Detection with Dimming available; Wireless Daintree™ Networked

options available



Certifications:









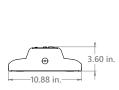
Please refer to the DLC QPL website for the latest and most complete information. www.designlights.org/QPL

Product Dimensions:

9T, 9H, 12T, 12H, 15T & 18T Output 1S-Module

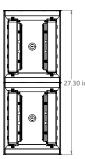


Max Weight: 10 lbs.

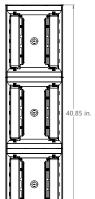


Side View

30 & 30H, 36T & 36H Output 2S-Module



Max Weight: 20 lbs.



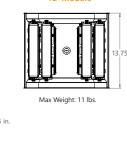
48T & 48H

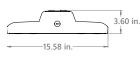
Output

3S-Module

Max Weight: 30 lbs

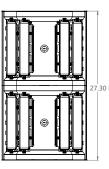
15H, 18H, 24T & 24H Output 1D-Module



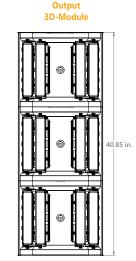


Side View

60T & 60H Output 2D-Module



Max Weight: 22 lbs.



90T & 90H

Max Weight: 33 lbs.



Ordering Number Logic

ABV3

PRODUCT ID	VOLTAGE	LUMEN OUTPUT	PERFORMANCE LEVEL	LED COLOR TEMP	OPTIC / LENS	CONTROLS	MOUNTING	CORD	PLUG	FINISH	OPTIONS
Highbay ABV 3 rd Gen	1 = 120* 2 = 208* 3 = 240* 4 = 277* 5 = 480* D = 347* *Specify single voltage if	09 = 9,000 12 = 12,000 15 = 15,000 18 = 18,000 24 = 24,000 36 = 36,000 48 = 48,000 60 = 60,000 90 = 90,000	I _ ~,	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	ST = 55° Textured Diffused	QV = 0-10V Dimming Daintree* Networked: NA = Occ, Ambient Light Sensor, ifeacon w/ High-Low Dim NB = Occ & Ambient Light Sensor w/ High-Low Dim TQ* = ZigBee Wireless Daintree* Enabled Daintree* One: FB = Occ & Ambient Light Sensor w/ High-Low Dim FD = Occ & Ambient Light Sensor on/Off FF = Occ w/ High-Low Dim FF = Occ w/ High-Low Dim FF = Occ w/ High-Low Dim FK = Ambient Light Sensor w/ High-Low Dim FM = Ambient Light Sensor On/Off NOTE: 40ft (12m) height, WHR1 iR Remote 93131632 * 1 Wireless Control (no sensor) must use Discrete Voltage for all Lumen pacakages over 24,000Lm AQ* = Occ Sensor On/Off 360°	ST = Standard (no hardware inclue) 22 = 1/2" Threaded rod mount kit Rod and nuts not included SM = Surface Mount Hardware not included 3 = 3/4" Pendant Mount Kit 3/4" Conduit not included 41 = Y-Cable/ Hook 42 = Y-Cable/ Hook 44 = Y-Cable/ Hook 14 = Y-Cable/ Hook 61 = Inverted Mount Y-Cable/ Hook 62 = Inverted Mount Y-Cable/ Hook 63 = Inverted Mount Y-Cable/ Hook 64 = Inverted Mount Y-Cable/ Hook 64 = Inverted Mount Y-Cable/ Hook 65 = Inverted Mount Y-Cable/ Hook 66 = Inverted Mount Y-Cable/ Hook 66 = Inverted Mount Y-Cable/ Hook 66 = Inverted Mount Y-Cable/ Hook 67 = Inverted Mount Y-Cable/ Hook 68 = Inverted Mount Y-Cable/ Hook 69 = Inverted	Cord B = 12ft. 18ga Black Cord C = 15ft. 18ga Black Cord D = 20ft. 18ga Black Cord Specialty Mod FS = Reloc OCS - 10ft GS = Reloc OCS - 15ft 115ft. HF = Plug-N-Go - 3ft 20ft. HF = Plug-N-GO - 3ft 20ft. HE = ACS - MC Flex3+ 277/480 #16AW NE = ACS - MC Flex3+ 277/480 #16AW	plug ular Cord Sets: . 18ga White Cord . 18ga White Cord . 18ga Black Cord t. 18ga Black Cord 6ft 2EA6-LW 51 - 12ft 2EA12-LW	W = White Powder Coat K = Black Powder Coat E = Emergency Orange Powder Coat	Blank = No Special Options 1PK = Single Pack for distributor stocking. Default is Job Pack. *Not Available for 90T & 90H. EL1 = 120° Battery Backup* EL5 = 50° Battery Backup not available for 347V/480V ZL1 = WHS20 Low Lens (2.5m or 8ft) ZL2 = WHS20 Medium Lens (6m or 20ft)
						Full Featured: 2Q = Motion Sensor w/Daylight, High-Low Dimming, and IR Remote	CONTROLS CODE		DESCRIPTION	ı	
						Adjustable (IR remote sold separately to modify default settings)	QQ	None			
							QV	0-10V Top Access	Control Wires		

LUMEN	ОИТРИТ	70 CR	MODULE			
PACKAGE	LEVEL	TYPICAL	TYPICAL POWER		TYPICAL	BODY
		DELIVERED LUMENS	120-277V	347/480V	LPW 120-277V	
09	T	9,000	50	52	180	1S
09	Н	9,000	46	48	196	1S
12	T	11,900	68	70	175	1S
12	Н	11,900	61	63	195	1S
15	T	15,200	92	93	165	1S
15	Н	15,200	81	82	188	1S
18	T	17,600	109	110	161	1S
18	Н	17,600	88	91	200	1D
24	T	23,400	137	139	171	1D
24	Н	23,400	122	124	192	1D
30	T	30,400	184	185	165	2S
30	Н	30,500	163	164	187	2S
36	T	35,500	221	222	160	2S
36	Н	35,500	190	194	187	2S
48	Т	47,400	284	291	167	3S
48	Н	47,400	248	257	191	3S
60	T	58,500	360	367	163	2D
60	Н	58,500	314	323	186	2D
90	T	87,700	554	554	158	3D
90	Н	87,700	483	486	182	3D

*All packages are 55°C rated with the exception of 60T $\&$ 90T which is 45°C
ambient max rated

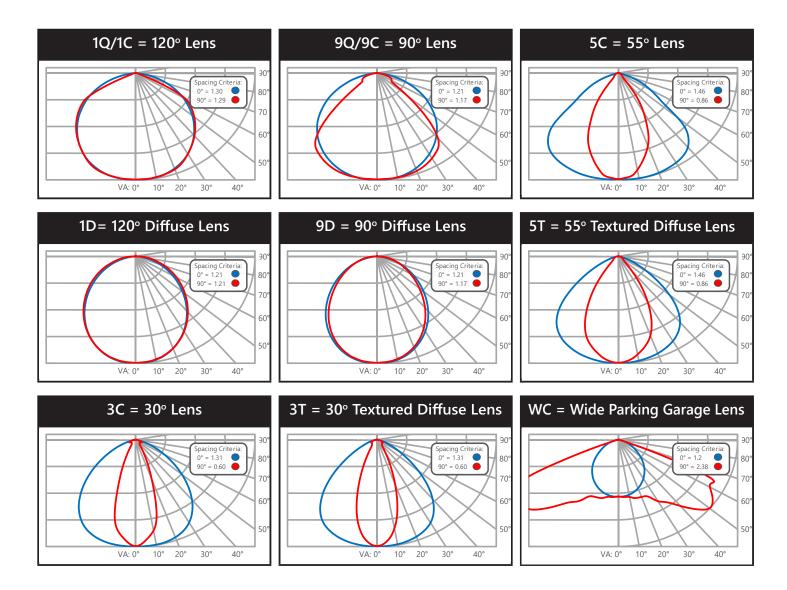
It settings)	QQ	None
	QV	0-10V Top Access Control Wires
	TQ	ZigBee Wireless Daintree [™] Enabled
Daintree	NA	Occupancy and Ambient Light (AL) Detection with Dimming and iBeacon Functionality
NETWORKED	NB	Occupancy and Ambient Light (AL) Detection with Dimming Functionality
	FB	Occupancy and Ambient Light Detection with High-Low Dimming Functionality
	FD	Occupancy and Ambient Light Detection On/Off Only
Daintree	FF	Occupancy Detection with High-Low Dimming Functionality
	FH	Occupancy Detection On/Off Only
	FK	Ambient Light Detection with High-Low Dimming Functionality
	FM	Ambient Light Detection On/Off Only

NOTE: See WHS20 spec sheet (Pg. 4) for default program parameters and occupancy detection patterns
- DAINTREE™ ONE Upgradeable to DAINTREE™ NETWORKED
- WHR1 Remote PN: 93131632
- 40ft (12m) mounting height

CD!		LUMEN PACKAGE OUTPUT		
CRI	ССТ	T OUTPUT	H OUTPUT	
70	5000	100%	100%	
70	4000	100%	100%	
	5000	95%	98%	
80	4000	92%	92%	
00	3500	90%	92%	
	3000	87%	92%	
00	3500	79%	78%	
90	4000	81%	79%	

OPTIC CODE	OPTIC DESCRIPTION	ОИТРИТ
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%
5T	55° Textured Diffused Lens	94%
3T	30° Textured Diffused Lens	95%
WC	Wide Parking Garage Optic	94%

Photometric Data:



Mounting & 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 1/2" threaded rod (rod and nuts not included).		22 = 1/2" Threaded Rod Kit	SKU: 93120346 Description: 1/2"
Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling. (Hardware not included.)		SM = Surface Mount	Surface Mounting Kit
Pendant Mount (optional) Available on all fixture configurations. Attaches to 3/4" threaded conduit (conduit not included).	9 11	23 = 3/4" Pendant Mount Kit	SKU: 93120347 Description: 3/4" 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 3/8" threaded rod (rod not included)		UP = Standard Inverted Mount	Aftermarket: NA

Chain/cable mount is standard and included in price. Price adder for Y-Cable, Rod Mount, Pendant Mount, and Rotatable Bracket. Consult Sales for latest information. See "Installation Instructions" for mounting details.

Mounting & Accessories:

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	AFTERMARKET ORDER LOGIC
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

Accessories & Renewal Parts

Replacement Lenses & Optics



ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93075866	ABV3 D Kit	1D or 9D	Diffused Lens Only (2 lenses)
93075867	ABV3 C Kit	1C or 9C	Clear Lens Only (2 lenses)
93075988	ABV3 9 Kit	9C or 9D	90 degree Optic (2 reflectors)
93075989	ABV3 1 Kit	1C or 1D	120 degree Optic (2 reflectors)
93117671	ABV3 5T Kit	5T	Textured Diffused 55 degree Lens (2 lenses)
93075991	ABV3 5C Kit	5C	Clear 55 degree Lens (2 lenses)
93117672	93117672 ABV3 3T Kit 3T		Textured Diffused 30 degree Lens (2 lenses)
93075993	ABV3 3C Kit	3C	Clear 30 degree Lens (2 lenses)

Wire Guards



ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93077600	WG ABV3 1S WT	9T, 9H, 12T, 12H, 15T, 15H, 18T	1S Wire Guard White Painted
93077666	WG ABV3 1D WT	18H, 24T, 24H	1D Wire Guard White Painted
93077602	WG ABV3 2S WT	30T, 30H, 36T, 36H	2S Wire Guard White Painted
93077604	WG ABV3 3S WT	48T, 48H	3S Wire Guard White Painted
93077668	WG ABV3 2D WT	60T, 60H	2D Wire Guard White Painted

^{*}Wire Guards must be ordered in packs of 5 each*

Field Swappable WHS20 Sensor Accessories



ORDERING SKU	ORDERING CAT# LOGIC	DESCRIPTION	QТY
93134998	WHS20_LOW_LENS_KIT	Lauriana 2 Fra (Oft)	1
93134999	WHS20_LOW_LENS_KIT_10	Low Lens: 2.5m (8ft)	10
93135000	WHS20_MED_LENS_KIT	Mad Lang Cop (20th)	1
93135001	WHS20_MED_LENS_KIT_10	Med Lens: 6m (20ft)	10
93135002	WHS20_HIGH_LENS_KIT	High Long 12m (40ft)	1
93135003	WHS20_HIGH_LENS_KIT_10	High Lens: 12m (40ft)	10
93134984	WHS20_SNAP_AISLE_MASK_KIT	Coop Op Aigle Magle	1
93134985	WHS20_SNAP_AISLE_MASK_KIT_10	Snap On Aisle Mask	10

NOTE: See WHS20 spec sheet for Occupancy Detection Patterns

LED & Optical Assembly

CRI: 70 & 80 CRI Standard

Fixture Rated Life: L70 @ 100,000 hrs. 55°C Fixtures are certified to depreciate no more than 30% at max. ambient

temperature conditions.

TM-21 Calculation at 25°C: L70 @ 250,000 hrs minimum L90 @ 65,000 hrs minimum

Distribution /Lenses:

No Lens: 90°, 120° open optic (most efficient) Clear Refractive Optic: 30°, 55°, wide distribution Textured Refractive Optic: 30°, 55°, (reduced glare)

Clear Lens (optional): 90°, 120° Diffused Lens (optional): 90°, 120° (maximum glare reduction)

Wire Guard Option: 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: Class1, 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 70 CRI & selected 80 CRI 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 effective polycarbonate

Paint: Powder coat painted housing No glass in housing or lenses

Weight: 10-11 lbs. per module (see dimensional drawings)

Controls

Standard Dimming: 0-10VDC

Minimum Dimming: Dim down to 10%

Wireless Networking & Sensing:

- WHS20 Zigbee Wireless Daintree[™] control module with available Occupancy Detection, Ambient Light Detection, Dimming, and iBeacon Functionality
 - See table on page 2 for details
 - See WHS20 spec sheet for Default Programming Parameters
 - WHR1 IR Remote = SKU # 93131632
- ZigBee Wireless Daintree with No Sensor Sensor TQ
- Wattstopper FSP Series Motion + daylight + IR config (IR remote sold separately) – Sensor 2Q
- Wattstopper FSP remote = SKU# 93076263
- Sensor Switch LSX LSXR Series Sensor AQ, BQ, or PQ

Mounting

Typical Mounting:

- Standard Chain/Cable mount ready
- Threaded rod kit & Surface mount optional
- Pendant mount kit optional

Inverted Mounting:

- Standard Chain/Cable mount ready
- Rod Inverted Mounting option, see pg. 4

Cord & Plugs:

- Standard = knockout access (no cord, no plug)
 6 ft, 12 ft, 15 ft, 20 ft cord options
- 15A, 20A, Straight or twist lock plug- Plugs A, B, C, or D
- Reloc OCS Cord-Plug FS or GS
- Plug-N-Go 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 1750 lm SKU# 93059500 - ASM2429 120° beam 1650 lm

Packaging: Standard pack is job pack/bulk pack consisting of 7-21 fixtures in a half Gaylord box. Fixtures are sleeve-wrapped within the bulk box for quick unloading at jobsite. Orders of <14 fixtures are typically single pack. Single Pack (i.e. for stocking) - Option 1PK. 90T & 90H are bulk pack only.

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.

System Warranty: 5 years

