

Albeo® LED Luminaire

LED High Bay Lighting



(ABC1 - Series)

Product Description:

The Albeo® ABC1 LED Series luminaire is an exceptional mixture of value and performance. Ideal for high bay applications in industrial and commercial buildings. Designed to replace 175W-450W HID and four-to eight-lamp T5/T8 HIF fixtures with unmatched reliability and quality.

Performance Highlights:

Light Output Range: 10,000 – 24,000 lumens

CRI: 70, 80

CCT: 4000K, 5000K

Distributions: 120° & 90° open and diffused lens options

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

Efficiency: 143 - 160 LPW typical

Fixture Rated: L70 @ 100,000 hours min.

Limited Warranty: 5 Years

Temperature Rating: -30°C to +50°C (-22°F to 122°F)

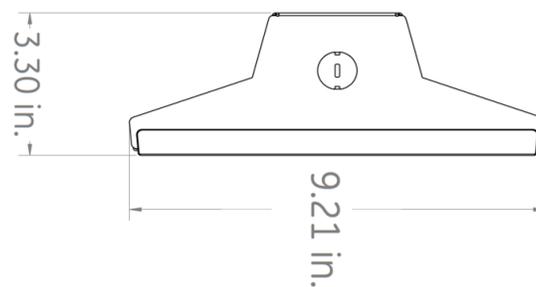
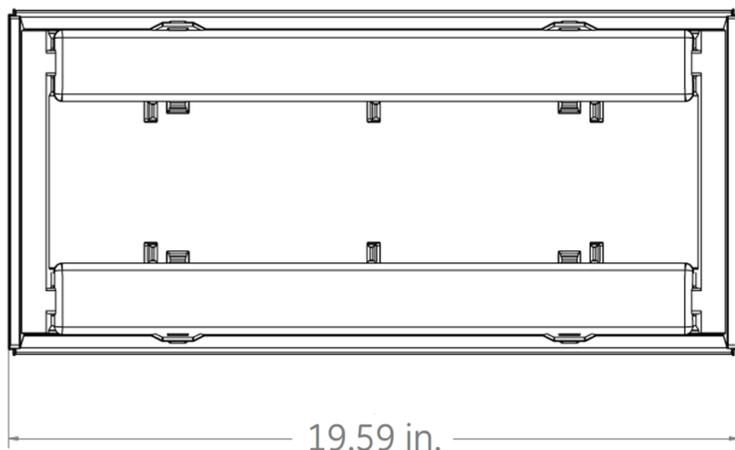
Controls & Sensors: 0-10V standard, optional motion & daylight sensor



Certifications:



Product Dimensions:



Weight: 6 lbs

Please contact the Fixture Technical Support team for technical questions. lightingproinfo@gecurrent.com or 1-888-694-3533, Option #2.

Ordering Number Logic

ABC1

W

PRODUCT ID	VOLTAGE	LUMEN OUTPUT	LED COLOR TEMP	OPTICS/LENS	CONTROLS	MOUNTING	CORD	PLUG	FINISH	OPTIONS
ABC1 = Albeo Highbay ABC 1st Gen	0 = 120-277 1 = 120* 4 = 277* D = 347* 5 = 480* <small>*Specify single voltage if plug or sensor needed. Controls not available at 208V or 240V.</small>	10 = 10,000 12 = 12,000 18 = 18,000 24 = 24,000	70 Plus CRI 47 = 4000K 57 = 5000K 80 Plus CRI 48 = 4000K 58 = 5000K	Open Optic 1Q = 120° No Lens 9Q = 90° No Lens Diffused Lens 1D = 120° Diffused Lens 9D = 90° Diffused Lens	QQ = None QV = 0-10V Dimming QA = Occ Sensor On/Off QB* = Occ Sensor High/Low Dimming QP = Daylight Sensor w/ Occ On/off <small>*QV & QB controls not available with 480V Note: 360° sensors, 15-45ft (4.6-13.7m) mounting heights, specify discrete voltage: -20°C (-4°F) minimum temperature rating</small>	ST = Standard SM = Surface Mount 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 = 6 ft. 18ga cord B = 12 ft. 18ga cord C = 15 ft. 18ga cord D = 20 ft. 18ga cord	Q = None A = 15A Straight Plug B = 20 Straight Plug C = 15A Twist Lock D = 20A Twist Lock	W = White Powder Coat	Blank = No Special Options 1PK = Single Pack



LUMEN PACKAGE	70 CRI @ 4000K OR 5000K CCT				
	TYPICAL DELIVERED LUMENS	TYPICAL POWER		TYPICAL LPW 120- 277V	MAX AMBIENT TEMP
		120-277V	347/480V		
10	9,900	62	64	160	50°C
12	12,000	78	79	154	50°C
18	18,000	126	124	143	50°C
24	23,600	161	159	147	45°C

Shown with "1Q" 120° No Lens Option
De-rate 5°C for "SM" Surface Mount Option

CRI	Lumens	CCT	OUTPUT MULTIPLIER
70CRI	10/12K Lumens	5000K	100%
		4000K	100%
70CRI	18/24K Lumens	5000K	100%
		4000K	100%
80CRI	10/12K Lumens	5000K	94%
		4000K	92%
80CRI	18/24K Lumens	5000K	96%
		4000K	94%

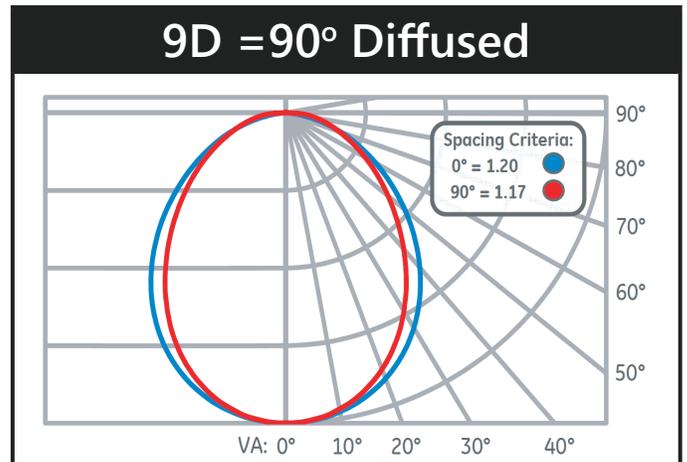
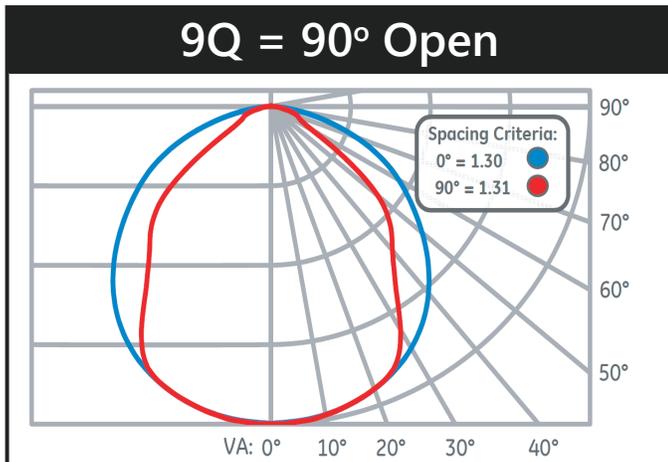
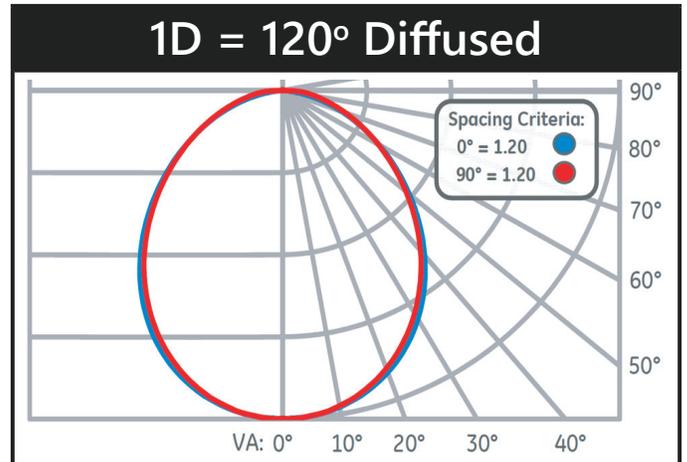
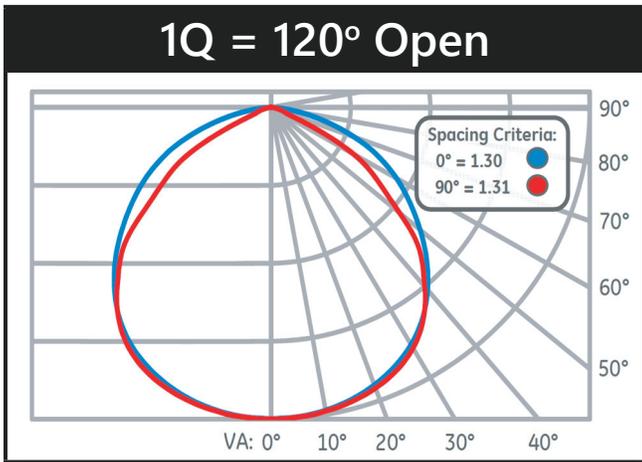
EMERGENCY BATTERY BACKUP KIT ORDERED SEPARATELY		
SKU#	DESCRIPTION	LUMENS
93059499	ASM2430 50° beam	1750
93059500	ASM2429 120° beam	1650

NOTE: EMBB kit is only compatible with low voltage (120-277V)

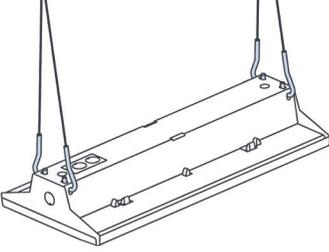
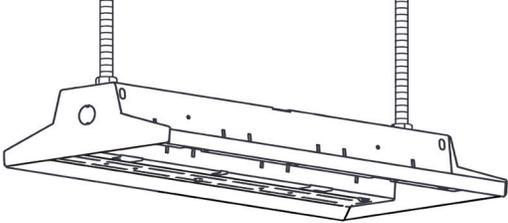
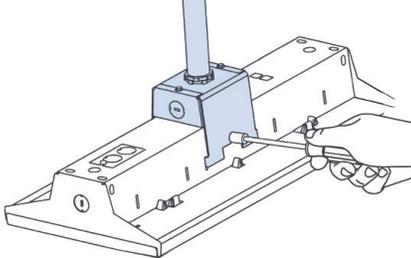
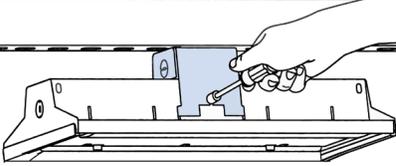
OPTIC LENS CODE	OPTIC DESCRIPTION	OUTPUT MULTIPLIER
1Q	120° No Lens	100%
1D	120° Diffused Lens	91%
9Q	90° No Lens	96%
9D	90° Diffused Lens	87%

REPLACEMENT LENSES & OPTICS			
ORDERING SKU	ORDERING CAT# LOGIC	FIXTURE CAT# LOGIC	DESCRIPTION
93124932	ABC1_D_KIT	1D or 9D	Diffused Lens Only (2 Lenses)
93137714	KIT0158_ABC1_DIFF_LENS_KIT_50PC	1D or 9D	Diffused Lens Only (Lenses for 25 Fixtures)
93137715	KIT0159_ABC1_DIFF_LENS_KIT_100PC	1D or 9D	Diffused Lens Only (Lenses for 50 Fixtures)
93137716	KIT0160_ABC1_DIFF_LENS_KIT_250PC	1D or 9D	Diffused Lens Only (Lenses for 125 Fixtures)
93134986	KIT0156_MLD_ABC1_COVER_REFL_90DEG_KIT	9D or 9Q	90 Degree Optic (1 Reflector plate/fixture)
93134985	KIT0155_MLD_ABC1_COVER_REFL_KIT	1D or 1Q	120 Degree Optic (1 Reflector plate/fixture)

Photometric Data



Mounting & Accessories

MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE	ORDER LOGIC CODE
<p>Standard Chain/Cable Mount Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory</p>		<p>ST=Standard</p>	<p>Aftermarket: NA</p>
<p>Rod Mount/Standard Mount Available on all fixture configurations. Attaches to 1/2" threaded rod (rod and nuts not included).</p>			
<p>Pendant Mount (optional) Available on all fixture configurations. Attaches to 3/4" threaded conduit (conduit not included).</p>		<p>23 = 3/4" Pendant Mount Kit</p>	<p>SKU: 93124931 Description: 3/4" Surface Mounting Kit</p>
<p>Surface Mount (optional) Available on all fixture configurations. Attaches to structural member in ceiling (Hardware not included).</p>	 <p>NOTE: 5" distance between ceiling plane and bottom face of fixture; De-rate 5°C</p>	<p>SM = Surface Mount</p>	
<p>Standard Chain/Cable Mount Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.</p>		<p>41 = Y-Cable/ Hook 5 ft. 42 = Y-Cable/ Hook 10 ft. 43 = Y-Cable/ Hook 15 ft. 44 = Y-Cable/ Hook 20 ft.</p>	<p>5ft Y-Cable/ Hook: 93075756 10ft Y-Cable/ Hook: 93075552 15ft Y-Cable/ Hook: 93075553 20ft Y-Cable/ Hook: 93075554 25ft Y-Cable/ Hook: 93075555 Max Load: 200 lbs. per pair</p>

LED & Optical Assembly

CRI: 70 & 80 CRI

Fixture Rated Life: L70 @ 100,000 hrs.

Distribution /Lenses:

120°, 90° with open optic

120°, 90° with diffused lens

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: Tested per ANSI C136.2-2015

6kV surge protection, standard for most SKUs

3kV surge protection, Lumen Output '10' & '12'

EMI: FCC CFR Title 47 Part 15, Class A

* PF and THD may vary with options

Ratings & Evaluations

Operating Temperature:

-30°C to +50°C (-22°F to 122°F) - 18,000lms and below

-30°C to +45°C (-22°F to 113°F) for 24,000lms

Storage Temperature: -40°C to +70°C

Surge Protection: Tested per ANSI C136.2-2015

6kV surge protection, standard for most SKUs

3kV surge protection, Lumen Output '10' & '12'

Location: UL 1598 Suitable for Damp Locations

Safety: UL/cUL Listed  

Environmental: RoHS compliant



DLC qualified models available

Please refer to <http://www.designlights.org/QPL> for complete information

Construction & Finish

Housing: Steel

Lensing: Polycarbonate diffused

Reflector: White highly reflective polycarbonate

Paint: Powder coat painted housing

No glass in housing or lenses

Weight: 6lbs (2.7kg)

Controls

Standard Dimming: 0-10VDC

Minimum Dimming: Dim down to 10%

Sensor Options:

Sensor Switch LSX LSXR Series - Sensor A, B and P
- 360° sensors, 15-45ft (4.6-13.7m) mounting heights,
specify discrete voltage, -20°C (-4°F) minimum
temperature rating

Mounting

Typical Mounting:

Standard Rod/ Chain / Cable mount ready.

Surface and Pendant mount optional.

Cord & Plugs:

Standard = knockout access (no cord, no plug)

6ft, 12ft, 15ft, 20ft Cord options

15A, 20A, Straight or twist lock plug

Packaging

Packaging: Standard pack is job pack / bulk pack consisting of up to 72 fixtures in 2, 16 cell dividers stacked on a 44" x 48" pallet. Two Fixtures are placed in each divided cell for quick unload at a jobsite.

Orders of <14 fixtures are typically single pack. Single Pack (i.e. for stocking) – Special Option 1PK. Sensor and corded options can be bulk packed or single packed.

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 Year