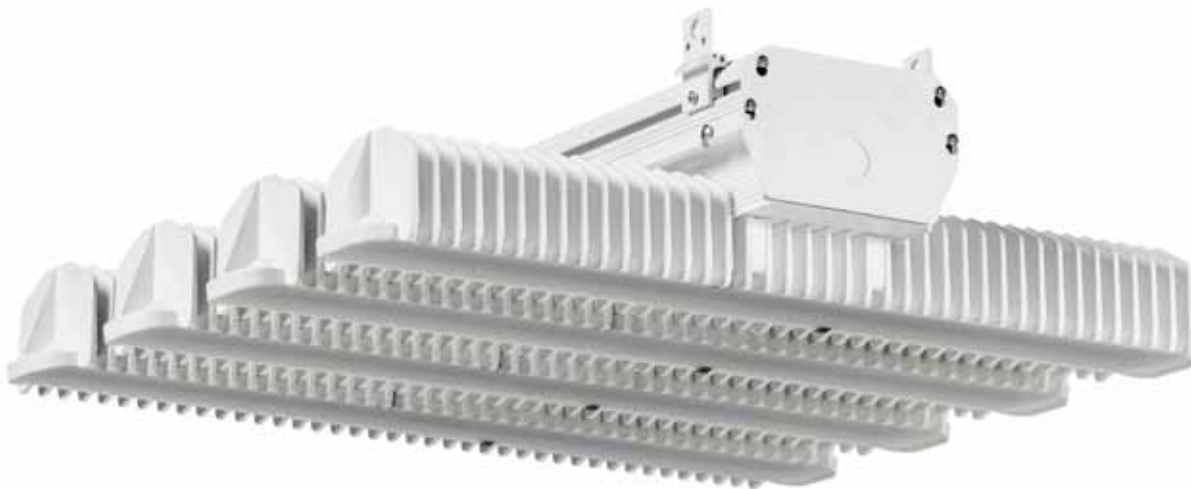


GE
Lighting Solutions

Albeo™ LED Luminaire

Modular High & Low Bay Lighting
(ABHX - Series)



imagination at work

Product Features

The award winning Albeo™ ABHX-series LED Luminaire utilizes innovative heat-sinking and cutting-edge LED technology to deliver a wide range of light outputs that replace 250W-1,500W HID and four-to-eight lamp T5/T8 high intensity fluorescent fixtures in high bay applications. The ABHX-series offers more lumens from fewer LED modules than previous generations and can be matched with motion, daylight and wireless controls for increased energy savings, lower maintenance costs and shorter paybacks.

Applications

- Designed to meet recommended luminance and illuminance requirements for high & low bay lighting applications in industrial and commercial buildings.

Housing

- Die cast aluminum housing.
- Innovative design accommodates up to 6 LED modules.
- Each LED module is equipped with an upper limit thermal control to ensure fixture lifetime throughout the temperature range.



LED & Optical Assembly

- Precision lens system provides optimized illumination for open floor or racked aisles.
- Field upgradable lens and multiple photometric distributions of 20, 40, 80 and 120 degrees.
- Utilizes high brightness LEDs, 70 CRI at 4000K & 5000K typical. For higher CRI options consult factory.
- LM-79, LM-80 tests and reports are performed in accordance to IESNA standards.

Lumen Maintenance

- System rating is L85 at 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours.

Ratings

-  DLC. Listed.
-  UL 1598 Suitable for Damp Locations.
- UL 8750 LED equipment in Lighting Products.
- Temperature Rated at (-35°C to +55°C) (-31°F to 131° F).
- Projected L70 (15K) ≥ 100,000 Life Hours per IES TM-21.

Mounting

- Chain or Cable mounting ready. 1/2" threaded rod kit, and 3/4" pendant mount kit optional.
- Cord and plug options offered.

Finish

- White polyester powder coat.

Controls

- Motion and Daylight sensor can be combined for additional energy savings.
- For wireless controls please consult factory.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.*
- EMI: Title 47 CFR Part 15 Class A.

** System power factor and THD is tested and specified at 120V input and maximum load conditions.*

Warranty

- 5-year limited system warranty standard.



Industry Awards



Winner of the 2013 Next Generation Luminaires™ Solid-State Lighting Design Competition for high and low bay industrial lighting. Sponsored by the U.S. Department of Energy (DOE), Illuminating Engineering Society of North America, and the International Association of Lighting Designers.



Winner of the 2013 Architectural SSL Magazine Product Innovation Award in the high bay category. Recognized with third award in 2 years from Architectural SSL Magazine.

Ordering Number Logic

Albeo™ High & Low Bay LED Lighting



ABHX

W

PRODUCT ID	VOLTAGE	MODULE	DRIVE CURRENT	LED COLOR TEMP	OPTICS BEAM	MOTION/DAYLIGHT SENSOR	CONTROL WIRING	MOUNTING	CORD & PLUG	FINISH	OPTIONS
A = Albeo	0 = 120/277 1 = 120*	1 = 1 module 2 = 2 modules	T = Standard	70 Plus CRI 47 = 4000K 57 = 5000K	1 = 120° 2 = 20° 4 = 40° 8 = 80°	N = None	N = None V = 0-10V Stand alone	ST = Standard 22 = ½" Threaded rod mount kit* 23 = ¾" Pendant Mount Kit**	K = Knock out access A = 6 ft. 18-3 cord & twist lock 15 amp plug B = 6 ft. 18-3 cord only C = 12 ft. 18-3 cord & twist lock 15 amp plug D = 12 ft. 18-3 cord only	W = White Powder coat	*W = Wireless Controls Consult factory for wireless configuration
B = Bay	4 = 277* 5 = 480*	3 = 3 modules 4 = 4 modules	H = High Output	Consult factory for higher CRI options	D = 120° Diffused lens Consult factory for 30° optic	A = On/off aisle motion B = On/off 360 motion C = On/off cold temp aisle D = On/off cold temp 360	D = 0-10V Daisy chain	41 = Y-Cable/ Hook 5 ft. 42 = Y-Cable/ Hook 10 ft. 43 = Y- Cable/ Hook 15 ft. 44 = Y- Cable/ Hook 20 ft.	Consult factory for custom cord lengths.		
H = H-Series	D = 347*	6 = 6 modules	V = Very High Output			If you choose options below you must choose control wiring option V or D					
X = LED Generation	*Specify single voltage only if cord and plug needed.										

MODULE #	DRIVE CURRENT	TYPICAL INITIAL LUMENS 70 CRI		TYPICAL SYSTEM WATTAGE 120-277V	LED COUNT
		4000K	5000K		
1	T	6,310	6,370	77	24
1	H	8,720	8,800	102	36
1	V	9,880	9,970	124	36
2	T	12,620	12,730	154	48
2	H	17,440	17,590	201	72
2	V	19,760	19,940	245	72
3	T	18,930	19,100	229	72
3	H	26,160	26,390	302	108
3	V	29,650	29,910	367	108
4	T	25,240	25,470	305	96
4	H	34,880	35,190	402	144
4	V	39,530	39,880	489	144
6	T	37,870	38,200	458	144
6	H	52,320	52,780	604	216
6	V	59,290	59,820	734	216

See Mounting & Accessories

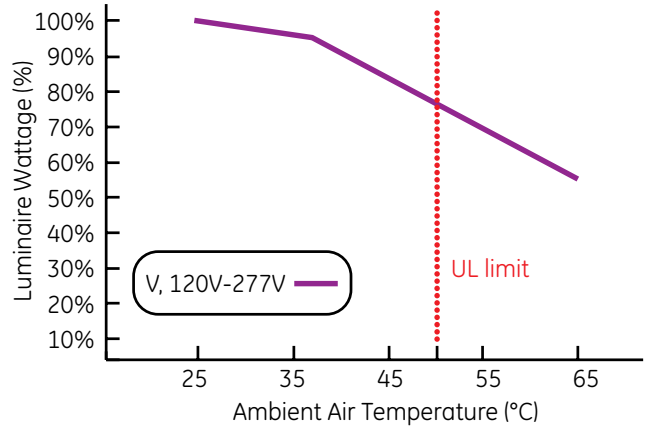
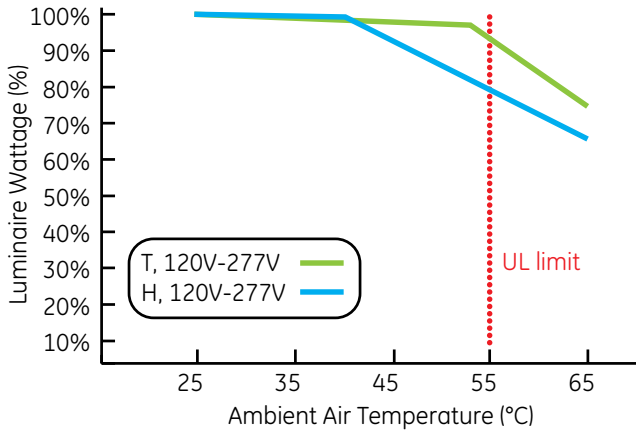
Note:
Option 23 can not be used with 6 module High Output or Very High Output drivers

Note:
IES files located on GE website
www.gelightingssolutions.com

Ambient Temperature Ratings

T & H Output Models: -35°C to +55°C

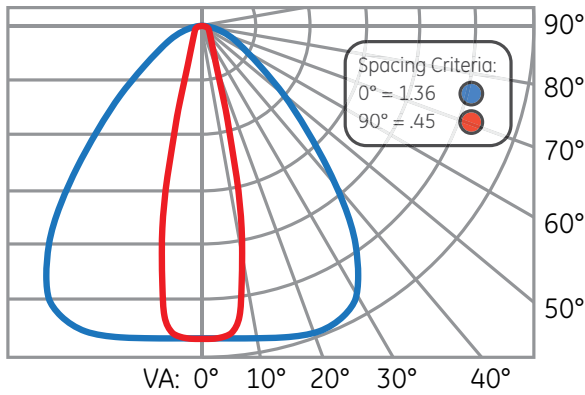
V Output Models: -35°C to +50°C



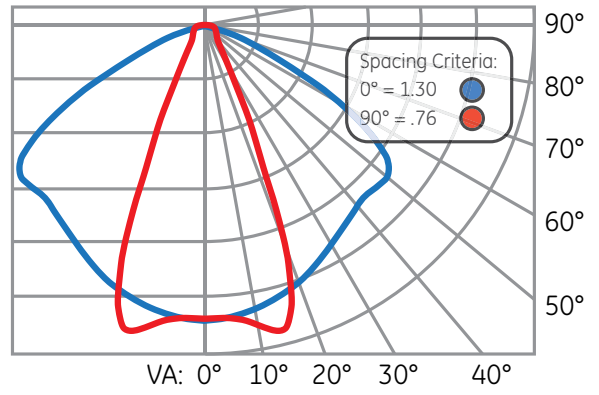
Photometrics

Optics for Common Applications

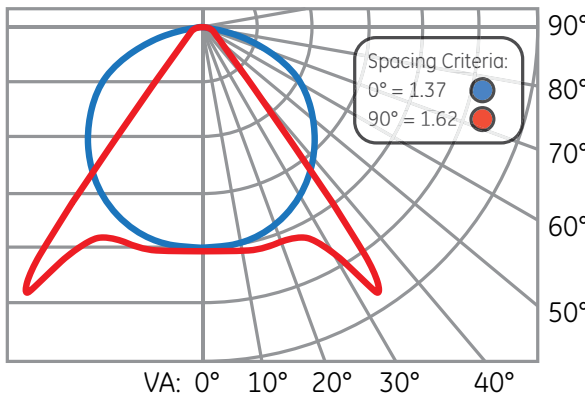
Aisle Distribution
20° Full Beam Angle



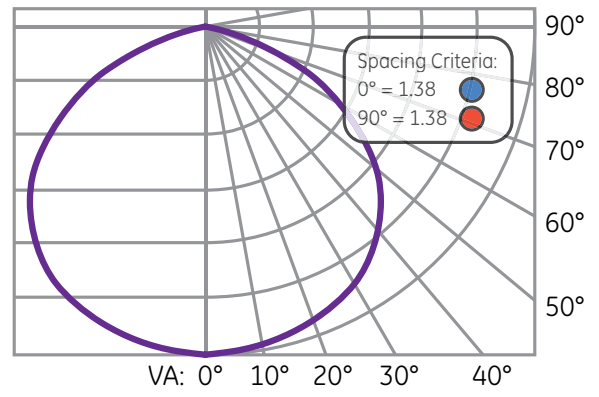
Narrow Distribution
40° Full Beam Angle



Standard Distribution
80° Full Beam Angle

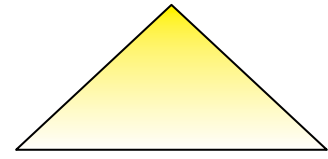
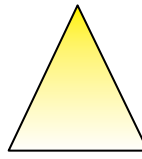
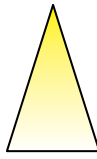
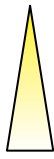


Standard/Diffused Distribution
120° Full Beam Angle



Illuminance at a Distance

CCT 5000K



MODULE	20° FULL BEAM ANGLE				40° FULL BEAM ANGLE				80° FULL BEAM ANGLE				120° FULL BEAM ANGLE			
	HEIGHT (ft.)	OUTPUT (fc)			HEIGHT (ft.)	OUTPUT (fc)			HEIGHT (ft.)	OUTPUT (fc)			HEIGHT (ft.)	OUTPUT (fc)		
		T	H	V		T	H	V		T	H	V		T	H	V
1	6	323	446	505	6	100	138	157	6	67	93	105	6	57	79	89
	12	81	111	126	12	25	35	39	12	17	23	26	12	14	20	22
	18	36	50	56	18	11	15	17	18	8	10	12	18	6	9	10
	24	20	28	32	24	6	9	10	24	4	6	7	24	4	5	6
	30	13	18	20	30	4	6	6	30	3	4	4	30	2	3	4
2	6	645	891	1,010	6	200	277	314	6	135	186	211	6	114	157	178
	12	161	223	253	12	50	69	78	12	34	46	53	12	28	39	45
	18	72	99	112	18	22	31	35	18	15	21	23	18	13	18	20
	24	40	56	63	24	13	17	20	24	8	12	13	24	7	10	11
	30	26	36	40	30	8	11	13	30	5	7	8	30	5	6	7
3	6	968	1,337	1,515	6	300	415	470	6	202	279	316	6	171	236	267
	12	242	334	379	12	75	104	118	12	50	70	79	12	43	59	67
	18	108	149	168	18	33	46	52	18	22	31	35	18	19	26	30
	24	61	84	95	24	19	26	29	24	13	17	20	24	11	15	17
	30	39	54	61	30	12	17	19	30	8	11	13	30	7	9	11
4	6	1,290	1,783	2,020	6	400	553	627	6	269	372	421	6	228	314	356
	12	323	446	505	12	100	138	157	12	67	93	105	12	57	79	89
	18	143	198	225	18	45	62	70	18	30	41	47	18	25	35	40
	24	81	111	126	24	25	35	39	24	17	23	26	24	14	20	22
	30	52	71	81	30	16	22	25	30	11	15	17	30	9	13	14
6	6	1,936	2,674	3,031	6	601	830	940	6	403	557	632	6	341	472	535
	12	484	669	758	12	150	207	235	12	101	139	158	12	85	118	134
	18	215	297	337	18	67	92	105	18	45	62	70	18	38	52	59
	24	121	167	189	24	38	52	59	24	25	35	40	24	21	30	33
	30	77	107	121	30	24	33	38	30	16	22	25	30	14	19	21

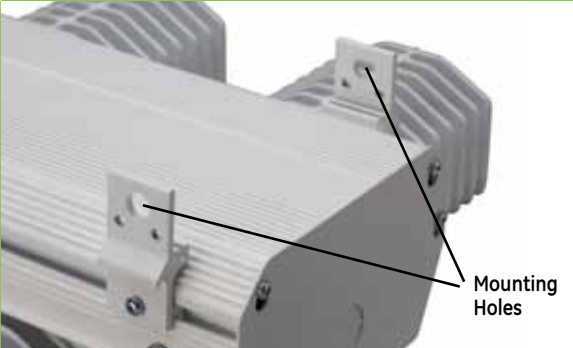

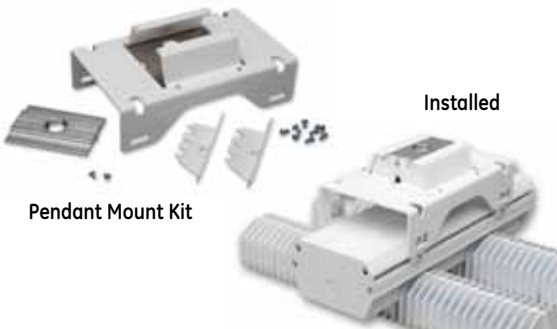
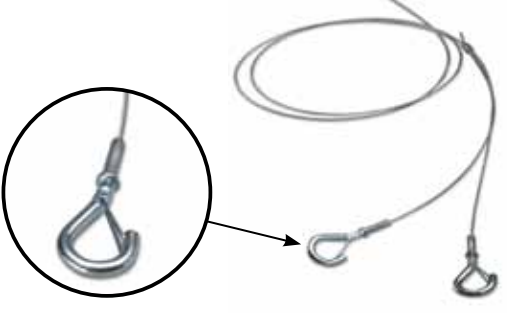
All output numbers are estimated in foot candles (fc)

Lens selection by application

The Albeo™ ABHX-series optical lens system enables LEDs to provide precise illumination where needed. Lenses are designed for commercial & industrial applications where mounting height, fixture spacing & light levels help determine lens selection. The following table outlines lens options and suggested application. Consult factory for specific project layouts.

LENS TYPE	MOUNTING HEIGHT	SPACE TYPE
Diffused 120°	Below 20 Feet	Open Floor Plan
Standard 120°	Any	Open Floor Plan
80°	Any	Open Floor Plan
40°	Below 20 feet	Low Bay Racked Aisles
20°	Above 20 feet	High Bay Racked Aisles

Mounting & Accessories

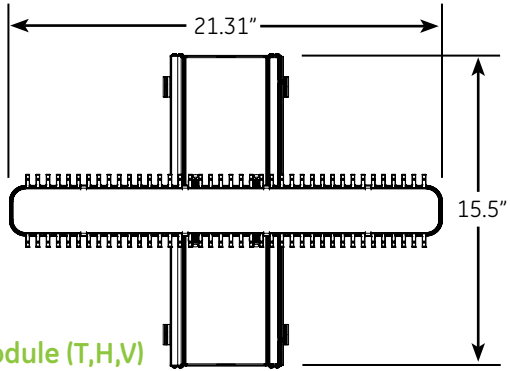
MOUNTING OPTIONS	IMAGE	ORDER LOGIC CODE
<p>Standard Chain/Cable Mount Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.</p>		<p>ST = Standard</p>
<p>Rod Mount (optional) Available on all fixture configurations. Attaches to 1/2" threaded rod (rod and nuts not included).</p>		<p>22 = 1/2" Threaded Rod Kit</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 Note: Cannot be used with 6 module High Output or Very High Output fixture.</p>
<p>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.</p>		<p>41=Y-Cable-Hook-05ft-Pair 42=Y-Cable-Hook-10ft-Pair 43=Y-Cable-Hook-15ft-Pair 44=Y-Cable-Hook-20ft-Pair Max Load: 200 lbs. per pair</p>

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

Product Dimensions

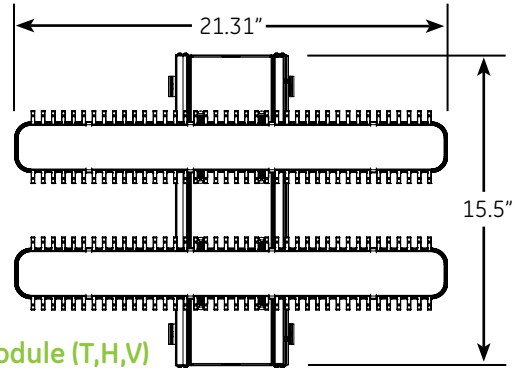
Albeo™ High & Low Bay LED Lighting

(ABHX - Series)



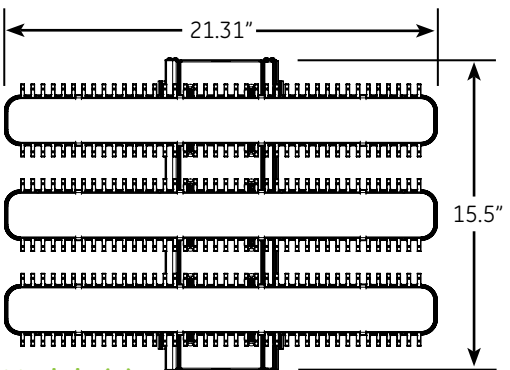
1-Module (T,H,V)

Max. Weight: 17 lbs.



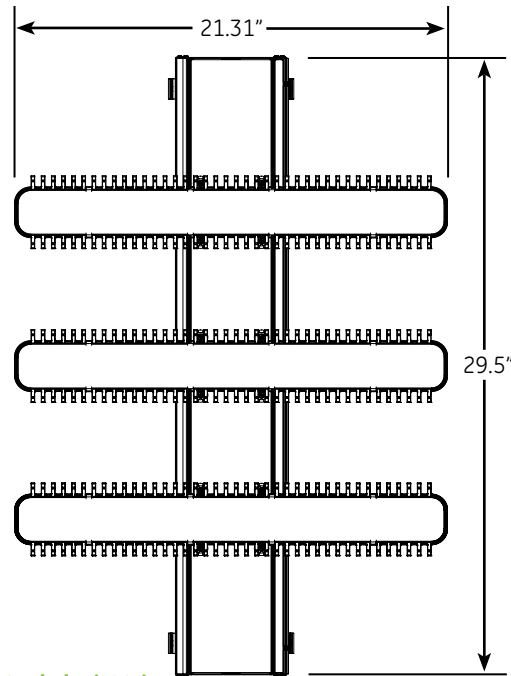
2-Module (T,H,V)

Max. Weight: 21 lbs.



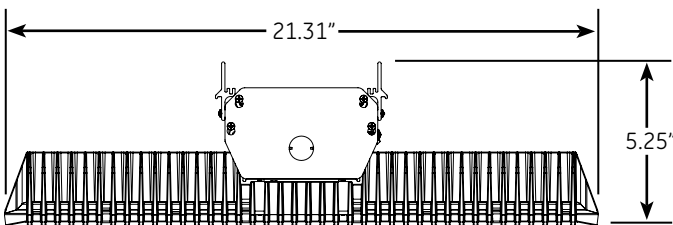
3-Module (T)

Max. Weight: 29 lbs.

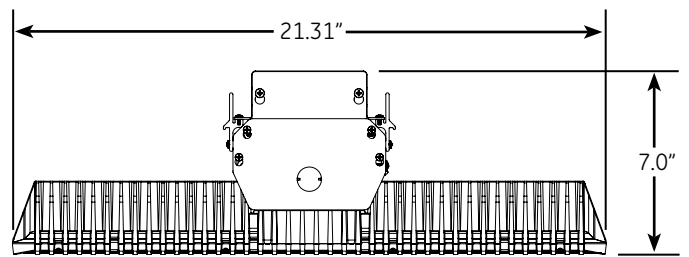


3-Module (H,V)

Max. Weight: 40 lbs.



1, 2, 3, 4, & 6-Module (T,H,V) 120/277V

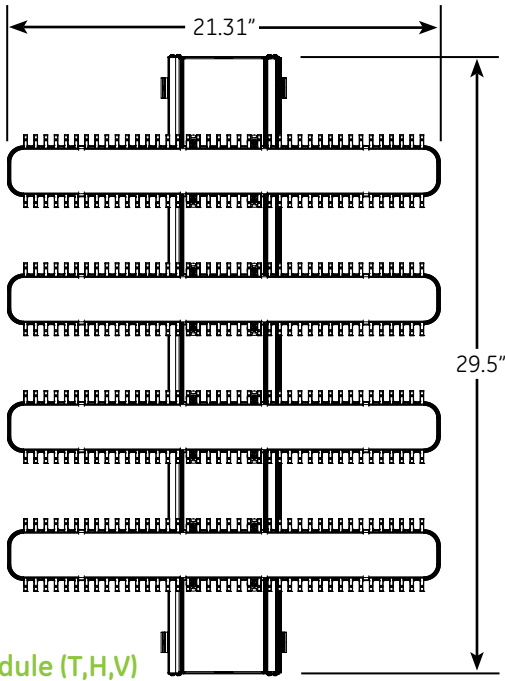


1, 2, 3, 4, & 6-Module (T,H,V) 347/480V

Product Dimensions

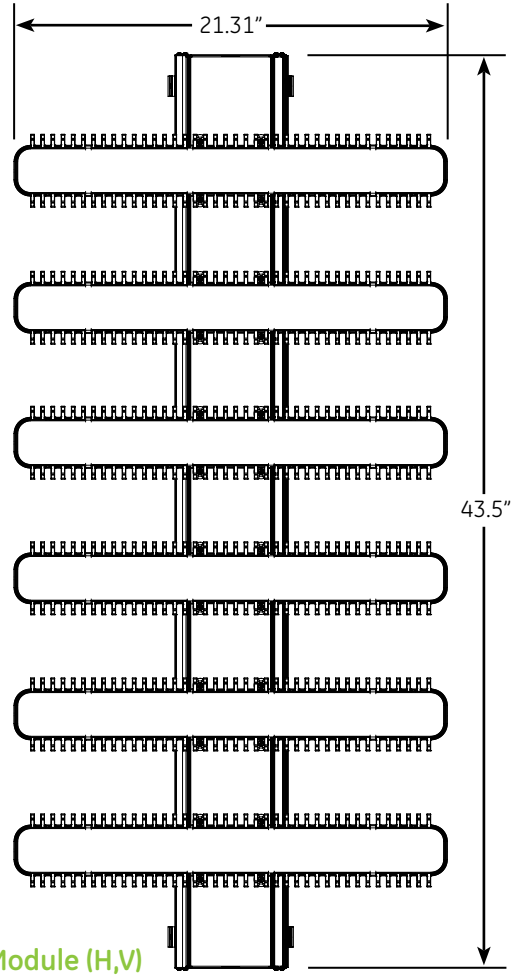
Albeo™ High & Low Bay LED Lighting

(ABHX - Series)



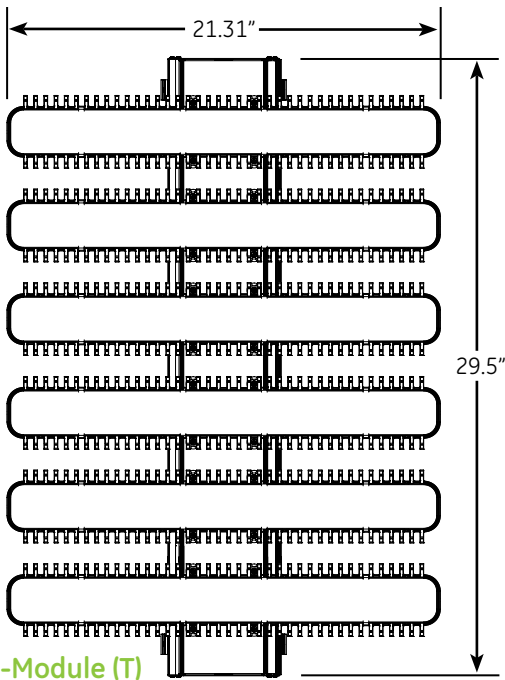
4-Module (T,H,V)

Max. Weight: 43 lbs.



6-Module (H,V)

Max. Weight: 70 lbs.



6-Module (T)

Max. Weight: 58 lbs.



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