

Albeo™ LED Luminaire

Linear high bay lighting – ABV Series



DATA SHEET

Product features

Albeo continues to build on the groundbreaking ABH-Series high bay LED luminaire with its latest high bay, the ABV-Series. Utilizing a new form factor, the ABV-Series offers customers the best mixture of value and performance.

Applications

- Designed to meet recommended luminance and illuminance requirements for high bay and low bay applications

Housing

- Combination of steel and aluminum housing
- ABV-Series' design accommodates 1 or 2 modules with 2 LED strips per module

LED & optical assembly

- ABV-Series lens system enable LEDs to provide optimized illumination for open floor and racked aisles with photometric distributions of 55, 90 and 120 degrees
- Utilizes high performance LEDs at 4000k CRI 80 as standard (5000k CRI 70 option)
- LM-79, LM 80 tests reports available

Ratings

- Temperature Rated at -20°C to +55°C
- Lumen maintenance of L85 79,000 hours
- IP20

Mounting

- Chain or Cable mounting ready, threaded rod kit, and trunking mounting kit optional

Finish

- Painted white finish

Controls & safety

- Motion and Daylight sensor can be combined with the ABV-Series for additional energy savings
- Optional integrated emergency module is available

Electrical

- 220-240V
- System power factor is >90% and THD <20%
- EMI: FCC CFR Title 47 Part 15, Class A

Warranty

- 5-year limited system warranty standard



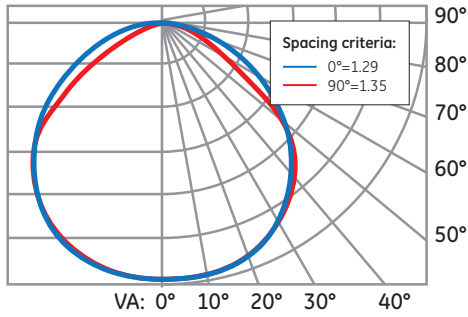
Specification summary

SKU	Order Code	Lumen Output [lm]	Power [W]	System Efficiency (lm/W)	Modules	Colour Temp. [K]	CRI [Ra]	Optic	Sensor	Controls	Integral Emergency
93013237	ABV171V48DNVST	10,800	96	113	1	4000	80	120° diffused	No	1-10V	No
93013238	ABV171V485NVST	10,161	96	106	1	4000	80	55°	No	1-10V	No
93013239	ABV171V489NVST	10,770	96	112	1	4000	80	90°	No	1-10V	No
93013240	ABV171V48DNDST	10,800	96	113	1	4000	80	120° diffused	No	DALI	No
93013261	ABV171V485DNDST	10,161	96	106	1	4000	80	55°	No	DALI	No
93013262	ABV171V489DNDST	10,770	96	112	1	4000	80	90°	No	DALI	No
	ABV171V48DSVST	10,800	96	113	1	4000	80	120° diffused	Yes	1-10V	No
	ABV171V485SVST	10,161	96	106	1	4000	80	55°	Yes	1-10V	No
	ABV171V489SVST	10,770	96	112	1	4000	80	90°	Yes	1-10V	No
	ABV171V48DSDST	10,800	96	113	1	4000	80	120° diffused	Yes	DALI	No
	ABV171V485SDST	10,161	96	106	1	4000	80	55°	Yes	DALI	No
	ABV171V489SDST	10,770	96	112	1	4000	80	90°	Yes	DALI	No
	ABV171V48DNSTEMBB	10,800	96*	113	1	4000	80	120° diffused	No	1-10V	Yes
	ABV171V485NVSTEMBB	10,161	96*	106	1	4000	80	55°	No	1-10V	Yes
	ABV171V489NVSTEMBB	10,770	96*	112	1	4000	80	90°	No	1-10V	Yes
	ABV171V48DNDSTEMBB	10,800	96*	113	1	4000	80	120° diffused	No	DALI	Yes
	ABV171V485NDSTEMBB	10,161	96*	106	1	4000	80	55°	No	DALI	Yes
	ABV171V489NDSTEMBB	10,770	96*	112	1	4000	80	90°	No	DALI	Yes
93013263	ABV172V48DNVST	21,600	191	113	2	4000	80	120° diffused	No	1-10V	No
93013264	ABV172V485NVST	20,320	191	106	2	4000	80	55°	No	1-10V	No
93013265	ABV172V489NVST	21,540	191	113	2	4000	80	90°	No	1-10V	No
93013266	ABV172V48DNDST	21,600	191	113	2	4000	80	120° diffused	No	DALI	No
93013267	ABV172V485DNDST	20,320	191	106	2	4000	80	55°	No	DALI	No
93013268	ABV172V489DNDST	21,540	191	113	2	4000	80	90°	No	DALI	No
	ABV172V48DSVST	21,600	191	113	2	4000	80	120° diffused	Yes	1-10V	No
	ABV172V485SVST	20,320	191	106	2	4000	80	55°	Yes	1-10V	No
	ABV172V489SVST	21,540	191	113	2	4000	80	90°	Yes	1-10V	No
	ABV172V48DSDST	21,600	191	113	2	4000	80	120° diffused	Yes	DALI	No
	ABV172V485SDST	20,320	191	106	2	4000	80	55°	Yes	DALI	No
	ABV172V489SDST	21,540	191	113	2	4000	80	90°	Yes	DALI	No
	ABV172V48DNSTEMBB	21,600	191*	113	2	4000	80	120° diffused	No	1-10V	Yes
	ABV172V485NVSTEMBB	20,320	191*	106	2	4000	80	55°	No	1-10V	Yes
	ABV172V489NVSTEMBB	21,540	191*	113	2	4000	80	90°	No	1-10V	Yes
	ABV172V48DNDSTEMBB	21,600	191*	113	2	4000	80	120° diffused	No	DALI	Yes
	ABV172V485NDSTEMBB	20,320	191*	106	2	4000	80	55°	No	DALI	Yes
	ABV172V489NDSTEMBB	21,540	191*	113	2	4000	80	90°	No	DALI	Yes
	ABV171V57DNVST	12,310	96	128	1	5000	70	120° diffused	No	1-10V	No
	ABV171V57DNDST	12,310	96	128	1	5000	70	120° diffused	No	DALI	No
	ABV171V57DSVST	12,310	96	128	1	5000	70	120° diffused	Yes	1-10V	No
	ABV171V57DSDST	12,310	96	128	1	5000	70	120° diffused	Yes	DALI	No
	ABV172V57DNVST	24,620	191	129	2	5000	70	120° diffused	No	1-10V	No
	ABV172V57DNDST	24,620	191	129	3	5000	70	120° diffused	No	DALI	No
	ABV172V57DSVST	24,620	191	129	2	5000	70	120° diffused	Yes	1-10V	No
	ABV1TKIT	Optional mounting brackets (2 per set) for trunking mounting (20 mm diameter hole)									
	ABV1RKIT	Optional mounting brackets (2 per set) for threaded rod suspension mounting (8 mm diameter hole)									

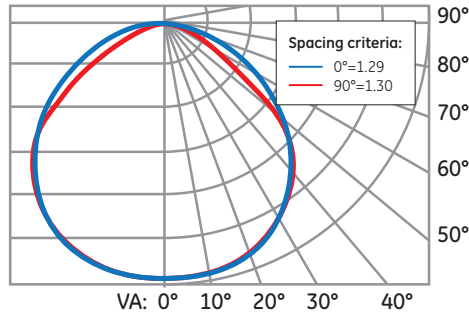
* excludes charging current of emergency

Photometric data

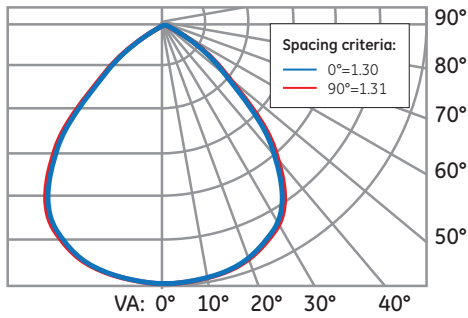
Polar Candela Distribution 120° Full Beam Angle



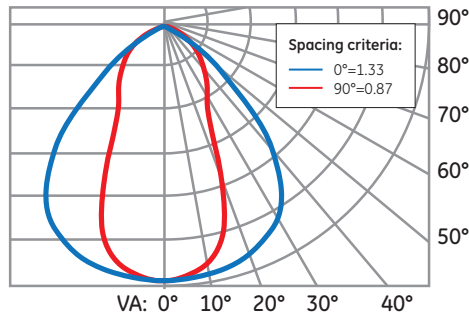
Polar Candela Distribution 120° Diffused Full Beam Angle



Polar Candela Distribution 90° Full Beam Angle



Polar Candela Distribution 55° Full Beam Angle



Lens selection by application

The Albeo™ ABV-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 your sales office for specific project layouts.

Lens Type	Mounting Height	Space Type
120° diffused	Below 6 m	Open floor plan
120° standard	Any	Open floor plan
90°	Any	Open floor plan
55°	Any	Low or High Bay Racked Aisles

Mounting options

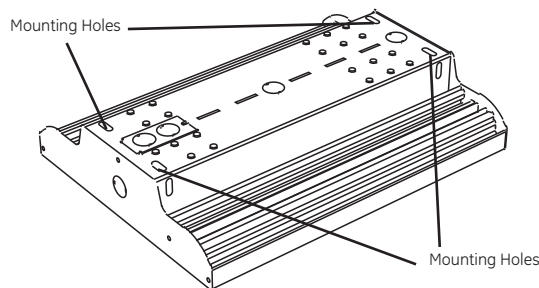
Mounting options

Image

Order logic code

Standard Chain/Cable Mount

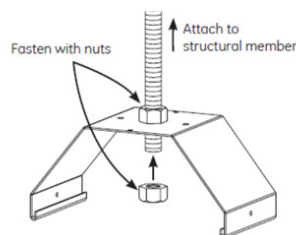
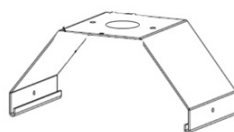
Available on all fixture configurations (chain not included). Y-Cable w/hook can be ordered as an accessory.



ST = Standard

Trunking bracket

ABV1TKIT (2 per luminaire)

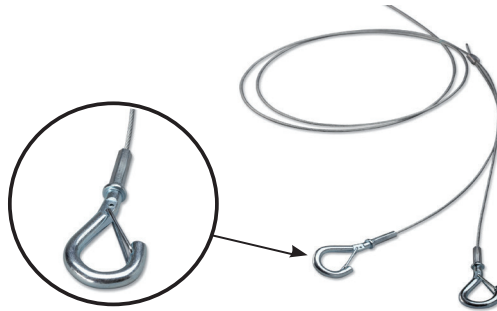


Rod suspension bracket

ABV1RKIT (2 per luminaire)
(rod and fixing nuts not supplied)

Y-Cable w/hook (optional)

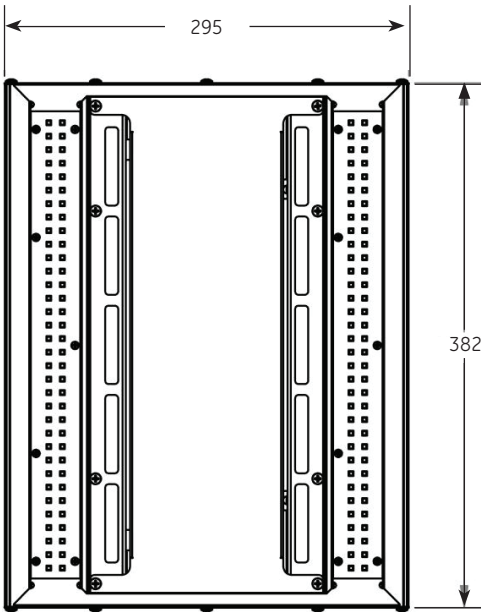
Use with Standard Mounting Option only.
Order separately. Price adder per pair.
1.5 m, 3 m, 4.5 m, 6 m lengths available.



ABHG-YCABLEHOOK1500MMPAIR	13498
ABHG-YCABLEHOOK3000MMPAIR	13499
ABHG-YCABLEHOOK4500MMPAIR	13504
ABHG-YCABLEHOOK6000MMPAIR	13508

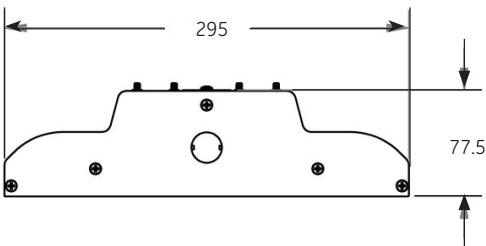
Dimensions [mm]

1-Module

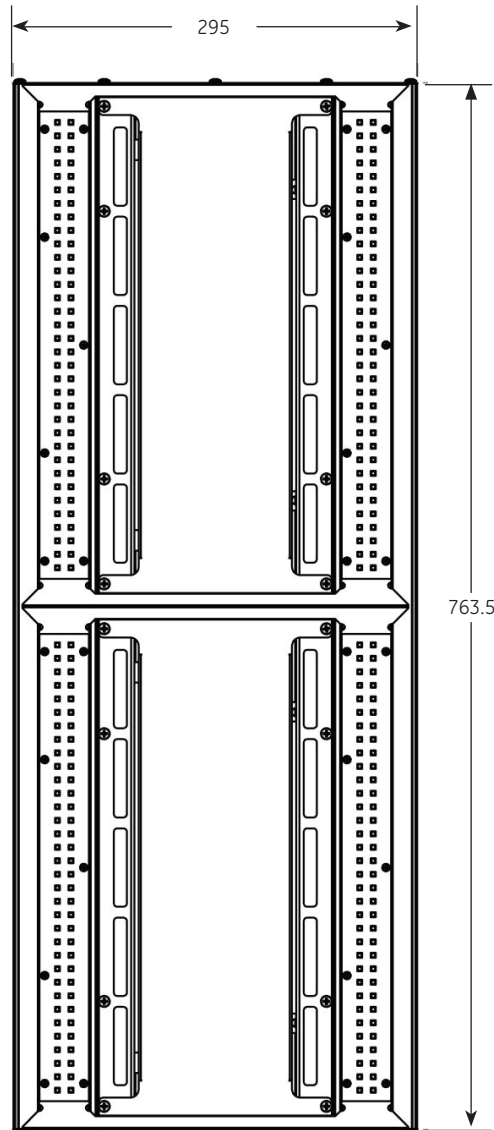


Max. Weight: 5 kg

Side view



2-Module



Max. Weight: 8.2 kg